WEEKLY WEATHER REPORT.

1881.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

LONDON:
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J. D. POTTER, 31, POULTRY, AND 11, KING STREET, TOWER HILL
AND E. STANFORD, CHARING CROSS.

WEEKLY WEATHER REPORT, 1881.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

No of Report.	For Week ending.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
1	January 10	Stornoway	44	24	37·4	27·1	32·3	−7·4	2	0·11	−1·20	10	22
"	" "	Barnstaple	46	24	41·7	33·1	37·4	−4·7	1	0·05	−1·06	*	*
2	" 17	Stornoway	33	11	31·0	18·7	24·9	−14·6	5	0·32	−0·98	7	14
3	" 24	Stornoway	38	19	34·9	24·3	29·6	−9·5	7	0·63	−0·62	14	27
4	" 31	Sumburgh Head	43	32	41·3	35·4	38·4	−0·3	6	0·47	+0·17	*	*
"	" "	Stornoway	44	25	41·7	33·9	37·8	−1·2	3	0·22	−0·98	8	15
5	February 7	Sumburgh Head	45	27	37·3	30·7	34·0	−4·5	6	2·18	+1·55	*	*
"	" "	Stornoway	46	24	39·7	33·1	36·4	−2·8	6	2·39	+1·24	18	31
"	" "	Birmingham (Oscott)	50	27	44·6	34·0	39·3	−0·9	7	0·95	+0·34	*	*
"	" "	Waterford	52	27	48·5	36·5	42·5	+0·4	6	2·61	+1·62	*	*
"	" "	Foynes	54	30	47·6	34·1	40·9	−1·1	5	0·55	?	*	*
6	" 14	Sumburgh Head	39	24	37·0	29·6	33·3	−5·2	6	0·41	−0·19	*	*
"	" "	Stornoway	42	25	39·1	31·3	35·2	−4·2	5	0·62	−0·48	2	3
7	" 21	Stornoway	45	30	42·7	37·1	39·9	+0·4	2	0·15	−0·90	11	16
8	" 28	Sumburgh Head	42	27	39·0	32·0	35·5	−3·0	6	0·28	−0·25	*	*
"	" "	Stornoway	45	25	40·6	30·4	35·5	−4·0	6	0·48	−0·53	20	28
9	March 7	Sumburgh Head	37	? 23	35·1	28·4	31·8	−5·7	4	0·12	−0·33	*	*
"	" "	Stornoway	46	? 15	40·1	28·4	34·3	−5·2	3	0·57	−0·43	22	29
"	" "	Birmingham (Oscott)	58	22	44·6	34·0	39·3	−2·2	6	1·84	+1·30	*	*
10	" 14	Sumburgh Head	47	34	43·1	36·1	39·6	+1·2	6	0·56	+0·27	*	*
"	" "	Stornoway	53	36	48·7	39·1	43·9	+4·4	5	0·42	−0·54	23	29
11	" 21	Sumburgh Head	48	20	40·1	34·6	37·4	−1·2	6	1·73	+1·40	*	*
"	" "	Stornoway	51	13	43·4	35·1	39·3	−0·4	6	1·06	+0·12	6	8
"	" "	Laudale (Loch Sunart)	53	27	46·3	37·6	42·0	+1·0	6	2·32	?	*	*
12	" 28	Sumburgh Head	41	22	36·0	29·0	32·5	−7·0	7	2·00	+1·65	*	*
"	" "	Stornoway	44	15	40·1	28·9	34·5	−6·0	7	0·70	−0·19	15	17
13	April 4	Sumburgh Head	41	25	36·1	28·4	32·3	−8·4	4	0·78	+0·39	*	*
"	" "	Stornoway	45	20	41·1	30·1	35·6	−5·9	1	0·09	−0·71	27	30
"	" "	Durham	48	22	40·9	25·2	33·1	−10·3	2	0·08	−0·32	34	38
14	" 11	Sumburgh Head	47	28	42·7	32·6	37·7	−4·1	2	0·06	−0·34	*	*
"	" "	Stornoway	53	28	48·9	33·1	41·0	−1·6	1	0·08	−0·67	58	61
"	" "	Jersey (Noirmont)	? 57	? 33	?51·7	?41·3	?46·5	? −2·0	? 0	? —	? −0·56	—	—
"	" "	Nottingham	64	28	55·4	31·6	43·5	−2·8	1	0·05	−0·39	*	*
15	" 18	Sumburgh Head	50	34	46·4	36·7	41·6	−1·2	2	0·08	−0·33	*	*
"	" "	Stornoway	58	31	54·0	38·3	46·2	+2·5	2	0·14	−0·55	52	53
"	" "	Nottingham	68	39	59·1	44·0	51·6	+3·5	5	1·00	+0·58	*	*
16	" 25	Sumburgh Head	48	30	44·1	32·7	38·4	−8·1	6	0·51	+0·06	*	*
"	" "	Stornoway	50	31	46·6	36·3	41·5	−3·4	5	0·75	+0·15	22	21
17	May 2	Sumburgh Head	46	32	44·7	35·5	40·1	−4·8	2	0·09	−0·31	*	*
"	" "	Stornoway	55	? 32	50·0	38·3	44·2	−1·8	2	0·11	−0·44	28	26
18	" 9	Sumburgh Head	51	32	48·0	33·9	41·0	−4·8	4	0·37	+0·01	*	*
"	" "	Stornoway	47	34	52·4	39·4	45·9	−1·1	4	0·67	+0·11	53	48
"	" "	Durham	62	33	55·6	38·4	47·0	−3·5	2	0·19	−0·25	52	48
19	" 16	Sumburgh Head	56	35	50·0	41·3	45·7	−1·2	6	1·47	+1·17	*	*
"	" "	Stornoway	61	39	53·7	42·7	48·2	0·0	4	0·68	+0·10	33	29
20	" 23	Sumburgh Head	55	33	48·3	38·6	43·5	−4·3	4	0·52	+0·22	*	*
"	" "	Stornoway	67	36	52·3	41·0	46·7	−2·8	3	1·41	+0·83	32	27
21	" 30	Sumburgh Head	62	42	57·3	44·3	50·8	+2·0	1	0·01	−0·29	*	*
22	June 6	Sumburgh Head	62	41	55·1	44·1	49·6	−0·3	6	0·77	+0·47	*	*
23	" 13	Sumburgh Head	52	34	48·1	37·1	42·6	−4·2	5	0·30	0·00	*	*
24	" 20	Sumburgh Head	54	40	51·7	42·4	47·1	−4·9	4	0·52	+0·22	*	*
25	" 27	Sumburgh Head	60	42	54·9	44·9	49·9	−2·7	6	0·87	+0·58	*	*

R 900. 100.—8/82. Wt. 230. E. & S.

No. of Report.	For Week ending	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
26	July 4	Sumburgh Head	59	43	56·3	45·9	51·1	−2·0	5	0·68	+0·40	*	*
27	„ 11	Sumburgh Head	62	43	57·1	46·4	51·8	−1·7	6	2·18	+1·90	*	*
„	„ „	Birmingham (Oscott)	87	47	72·2	50·8	61·5	−0·8	2	0·56	−0·06	*	*
28	„ 18	Sumburgh Head	59	38	57·9	45·4	51·7	−2·0	3	0·43	+0·15	*	*
„	„ „	Birmingham (Oscott)	84	47	79·7	52·9	66·3	+3·8	0	—	−0·62	*	*
„	„ „	Cheadle	79	49	74·0	54·6	64·3	+2·1	0	—	?	*	*
29	„ 25	Sumburgh Head	60	39	56·4	45·3	50·9	−3·1	3	0·44	+0·14	*	*
30	August 1	Sumburgh Head	60	40	56·6	45·6	51·1	−2·9	5	0·24	−0·12	*	*
„	„ „	Birmingham (Oscott)	71	44	65·5	50·1	57·8	−4·2	5	0·74	+0·12	*	*
31	„ 8	Sumburgh Head	59	42	57·7	48·0	52·9	−1·1	5	1·15	+0·74	*	*
„	„ „	Birmingham (Oscott)	79	45	71·7	51·6	61·7	−0·3	1	0·64	+0·03	*	*
32	„ 15	Sumburgh Head	60	43	55·9	45·9	50·9	−3·6	2	0·09	−0·41	*	*
„	„ „	Birmingham (Oscott)	66	44	61·3	47·5	54·4	−7·5	3	0·74	+0·22	*	*
33	„ 22	Sumburgh Head	57	44	55·6	46·4	51·0	−3·1	4	0·14	−0·41	*	*
„	„ „	Scilly (St. Mary's)	65	53	61·6	55·0	58·3	−3·2	6	0·67	+0·17	*	*
„	„ „	Birmingham (Oscott)	74	45	65·4	49·5	57·5	−3·8	5	2·02	+1·37	*	*
34	„ 29	Sumburgh Head	57	42	54·4	44·1	49·3	−4·8	3	0·14	−0·41	*	*
„	„ „	Scilly (St. Mary's)	65	53	62·9	54·7	58·8	−2·2	6	1·11	+0·51	*	*
„	„ „	Birmingham (Oscott)	67	42	63·3	46·6	55·0	−5·9	4	0·75	+0·06	*	*
35	September 5	Sumburgh Head	61	41	55·9	42·9	49·4	−4·4	1	0·02	−0·53	*	*
„	„ „	Scilly (St. Mary's)	62	51	59·6	53·6	56·6	−3·7	2	1·58	+0·80	*	*
„	„ „	Londonderry	63	38	60·6	42·2	51·4	−5·1	1	0·04	−0·81	*	*
36	„ 12	Sumburgh Head	61	46	55·6	48·7	52·2	−0·8	5	0·32	−0·21	*	*
„	„ „	Scilly (St. Mary's)	64	53	61·3	54·6	58·0	−1·8	3	0·10	−0·81	*	*
„	„ „	Birmingham (Oscott)	66	? 42	60·7	46·9	53·8	−5·0	1	0·02	−0·77	*	*
37	„ 19	Sumburgh Head	58	44	54·4	46·3	50·4	−1·7	3	0·13	−0·37	*	*
„	„ „	Scilly (St. Mary's)	65	53	63·1	55·3	59·2	+0·2	3	0·13	−0·93	*	*
38	„ 26	Sumburgh Head	57	40	54·4	44·9	49·7	−1·6	2	0·16	−0·36	*	*
„	„ „	Scilly (St. Mary's)	65	50	62·9	54·3	58·6	+0·6	5	1·19	+0·09	*	*
39	October 3	Sumburgh Head	58	45	56·3	47·7	52·0	+1·9	2	0·33	−0·22	*	*
„	„ „	Scilly (St. Mary's)	63	53	61·4	54·9	58·2	+1·2	1	0·01	−1·09	*	*
40	„ 10	Sumburgh Head	54	41	52·3	45·1	48·7	0·0	5	2·24	+1·66	*	*
„	„ „	Scilly (St. Mary's)	60	46	58·0	50·9	54·5	−1·5	5	0·38	−0·74	*	*
41	„ 17	Sumburgh Head	51	34	47·1	37·3	42·2	−4·8	6	0·94	+0·34	*	*
„	„ „	Scilly (St. Mary's)	59	44	57·1	50·6	53·9	−1·1	3	0·21	−0·89	*	*
„	„ „	Birmingham (Oscott)	60	31	56·2	39·2	47·7	−3·8	4	0·90	+0·11	*	*
„	„ „	Waterford	60	28	55·9	42·0	49·0	−2·7	4	0·47	−0·58	*	*
42	„ 24	Sumburgh Head	50	36	49·4	39·9	44·7	−0·5	1	0·08	−0·53	*	*
„	„ „	Scilly (St. Mary's)	60	47	56·9	49·9	53·4	−0·1	5	1·11	+0·01	*	*
„	„ „	Jersey (Noirmont)	61	41	55·7	45·7	50·7	−2·8	5	2·08	+1·23	—	—
43	„ 31	Scilly (St. Mary's)	54	40	50·4	44·4	47·4	−4·8	3	0·53	−0·52	*	*
44	November 7	Scilly (St. Mary's)	60	43	58·0	49·3	53·7	+2·7	5	0·86	−0·14	*	*
45	„ 14	Scilly (St. Mary's)	60	51	57·9	53·0	55·5	+6·0	6	0·16	−0·80	*	*
46	„ 21	Scilly (St. Mary's)	57	49	55·9	51·6	53·8	+5·8	5	1·05	+0·10	*	*
„	„ „	Laudale (Loch Sunart)	56	30	52·3	40·5	46·4	+4·4	6	4·16	?	*	*
„	„ „	Llandudno	61	45	56·4	48·1	52·3	+8·1	5	0·33	−0·47	5	8
47	„ 28	Scilly (St. Mary's)	56	43	54·0	47·1	50·6	+3·1	6	1·44	+0·54	*	*
48	December 5	Scilly (St. Mary's)	56	43	53·3	46·1	49·7	+2·7	7	1·84	+0·94	*	*
49	„ 12	Scilly (St. Mary's)	55	39	48·6	42·9	45·8	−1·2	5	0·99	+0·09	*	*
50	„ 19	Scilly (St. Mary's)	51	38	49·7	41·7	45·7	−0·8	7	2·76	+1·85	*	*
51	„ 26	Scilly (St. Mary's)	51	39	49·4	42·7	46·1	−0·2	3	0·47	−0·48	*	*
„	„ „	Leicester	47	22	40·4	28·0	34·2	−6·0	2	0·29	−0·27	6	12
„	„ „	Foynes	52	31	46·5	38·0	42·3	−0·1	4	0·68	?	*	*

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 1.] WEEK ENDING MONDAY, JANUARY 10, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Shrewsbury, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Barnstaple, Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations (1866-75). A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	46	14	37	23	30	8 below.	2	less than ½	5 less.	23	48
	2. ENGLAND, N.E.	44	24	39	32	35	3 below.	1	1	5 less.	11	21
	3. ENGLAND, E.	44	26	39	33	36	2 below.	3	1	5 less.	18	33
	4. MID. COUNTIES	44	19	38	31	34	5 below.	1	less than ½	6 less.	13	25
	5. ENGLAND, S.	45	27	40	33	37	4 below.	1	less than ½	7 less.	14	25
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	20	38	29	33	6 below.	1	less than ½	10 less.	14	27
	7. ENGLAND, N.W.	47	17	39	31	35	6 below.	1	less than ½	8 less.	18	35
	8. ENGLAND, S.W.	47	28	41	35	38	5 below.	1	less than ½	11 less.	17	32
	9. IRELAND, N.	48	22	39	32	36	5 below.	1	less than ½	8 less.	17	33
	10. IRELAND, S.	53	14	42	34	38	4 below.	1	less than ½	11 less.	23	44

General Remarks.

Weather has been dry, very fine and bright in nearly all parts of the Kingdom, but in the S. of Scotland and N. of England some fog or haze was experienced.

Temperature was below the mean in all districts, the deficit being as much as 8° in "Scotland, E.," and from 3° to 6° in nearly all other places. Readings on the first few days were much higher than those observed during the latter part of the period, when the thermometer fell to 14° at Glenalmond and Parsonstown, to 16° at Aberdeen, 17° at Manchester, 18° at Blackpool, 19° at Churchstoke, and to between 20° and 24° except over the central and southern parts of England, where the minima ranged from 26° to 29°.

Rainfall was hardly appreciable in any district.

Bright sunshine was much more prevalent than of late in all parts of the Kingdom. The recorded percentage of total possible duration was greatest in "Scotland, E." (48), and "Ireland, S." (44), and least in "England, NE.," (21).

Wind in Scotland was exceedingly light and variable during the whole period; but over England and Ireland an easterly or north-easterly current prevailed, which, though moderate generally, blew freshly or strongly in most places on the 5th, 6th, and 7th. A fresh to strong easterly gale was experienced on the S. and E. coast of England on the 6th.

NOTE.—Two new columns have now been added to this Report, containing the averages of the Maximum and Minimum Temperature Readings recorded each day.

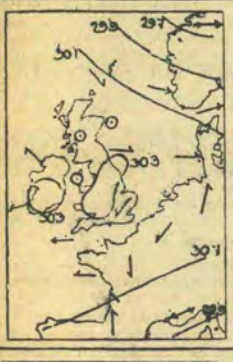
Q 4486. 100.—1/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 10, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, January 4.

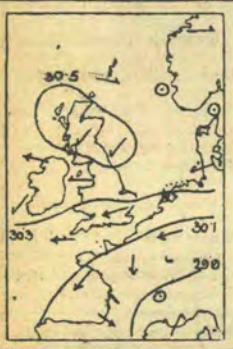
Weather fine in N. Scotland and at some south-eastern stations, but sky generally cloudy elsewhere. Sky clear in Scotland all day, as well as in N. France; cloudy but dry generally.

Temperature fallen in nearly all places; readings ranging from 45° at Scilly to 35° at Aberdeen. Maxima between 40° and 45° generally, but 50° at Ardrossan. Frost in N. at night.

Wind moderate to fresh from E. over France and the S. of England, light and variable on most of our other coasts, and strong to a gale from the westward in the N. and over Scandinavia. Easterly wind in the S. increasing a little later, but no other change.

Sea rough at Rochefort, Scilly, and Christiansund.

Barometer falling on the Continent generally and at our south-eastern stations; rising in W. and N. Area of high pressure over these Islands and N. Germany; low readings reported from Lapland and Gulf of Lyons. Mercury falling all day in France, rising elsewhere.



Wednesday, January 5.

Weather generally moderately fine, though dull at several stations; rain and snow reported from S. France. Sky clear in most places during day and scarcely any rain falling. Air very dry.

Temperature fallen considerably except in the S.E. and S.; readings ranging from 46° at Scilly to 27° at Aberdeen and Lyons. Maxima between 35° and 45°, and frost in N. at night.

Wind easterly to north-easterly over France, England, and Ireland, northerly and north-westerly in Scandinavia, light and variable in Scotland. Easterly wind increasing in S. and reaching a gale in Channel and at Yarmouth.

Sea rough in S.

Barometer falling at the French and our S. coast stations, rising elsewhere; anticyclone (30·5 in.) lying over Scotland. Mercury rising in N. and falling in S. all day, and gradients becoming steep.

Thursday, January 6.

Weather fine over nearly the whole of these Islands, N. Germany, and Scandinavia, dull with some rain and snow over France. Fine all day except in the S.W.; slight shower falling at Scilly at 6 P.M.

Temperature fallen except in the E. of France and at some Scotch stations; readings ranging from 41° in the S.W. to 23° at Nairn. Very little change later, but hard frost reported from Scotland at night.

Wind easterly and strong in force over France, England, and Ireland, very light in Scotland, strong to light from W. in Scandinavia. No change later.

Sea rough in the S.E., S., and W.

Barometer rising in all places except the N. of Norway. Anticyclone (30·7 ins.) shown over Denmark and North Sea, with one depression near Biarritz and a second near Bodö. Mercury rising all day. Barometer at Skudesnaes at 2 P.M. as high as 30·8 ins.

Friday, January 7.

Weather cloudy or dull in Norway and on our S.W. coasts, fine in nearly all other places. Cloudy all day in S.W., fine and bright elsewhere, and no rain falling.

Temperature risen slightly on our S.W. coasts, and briskly in S. Scandinavia, fallen in most other places,—quickly in Scotland. Readings ranging from 45° at Valentia to 17° at Aberdeen. Sharp frost all day in E. Scotland, but maxima elsewhere between 35° and 45.

Wind easterly to south-easterly over these Islands and their neighbourhood, westerly and north-westerly over Norway and Sweden. Fresh in force, except on our N. and E. coasts. Scarcely any change later.

Sea rough in the S.W.

Barometer fallen over Denmark and the S. of Scandinavia, risen elsewhere. Pressure ranging from 30·76 ins. at Leith, to 29·8 ins. at Bodö, and 30·1 ins. at Toulon. Pressure giving way slowly during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 8.

Weather fine in the W. of these Islands, and the W. and S. of France, dull, with some mist or fog elsewhere. Little change during day, very fine in W. Very slight rain fell on the E. coast of England at night.

Temperature risen in the E. of Scotland and some parts of the S. of England, fallen generally. Readings ranging from 47° at Scilly, to 24° at Aberdeen. Sharp frost in N. and N.W. all day.

Wind northerly on our N. and E. coasts, and over the North Sea, easterly over France, the Channel, and S. of England. Moderate except at Scilly. Northerly to easterly winds holding all day.

Sea rough round the Scilly Islands.

Barometer falling in all parts of western Europe. Anticyclone (30·6 ins.) lying over our eastern and northern coasts, with low pressures over the Baltic and Gulf of Lyons. Pressure giving way steadily.

Sunday, January 9.

Weather fine to the eastward of the North Sea and at some E. coast stations, cloudy in most other places, with snow at Oxford. Generally cloudy or dull during day, but dry.

Temperature risen over central England and at several French stations, fallen generally. Readings ranging from 43° at Scilly to 16° at Parsonstown and 18° at Aberdeen. Sharp frost in W. and N. all day.

Wind light and variable in the N., northerly to easterly over England, Ireland, and France. Blowing a slight gale in the Bay of Biscay. Northerly to easterly winds still blowing in evening.

Sea rather rough at Scilly.

Barometer falling everywhere. Large depression appearing in far N., and anticyclone breaking up over these Islands. Decrease of pressure continuing steadily.

Monday, January 10.

Weather fine over a large part of France, cloudy or dull in nearly all other places, with snow in N.E. Scotland. Sky more or less cloudy all day, with slight snow down our E. coast.

Temperature fallen except at some of our western and northern stations and over N. Germany. Readings ranging from 41° at Prawle Point to 24° at Nottingham. Temperature low all day, with frost in several places.

Wind northerly on most of our coasts and over the North Sea, easterly over the Channel and France. Blowing strongly over the Bay of Biscay. No change of consequence later.

Sea moderate or smooth round our coasts.

Barometer fallen everywhere—rapidly over Sweden. Anticyclone still shown over our western and northern coasts, with a disturbance over the Baltic. Pressure giving way all day, most in the N.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean* for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	29	41·3	33·9	37·6	−1·9	4	0·13	−0·58	*	*
	Stornoway											
	Wick	44	19	38·1	26·6	32·4	−6·6	1	0·05	−0·53	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	38	44·7	40·4	42·6	−3·4	2	0·07	−1·04	*	*
	Jersey (Noirmont)	45	31	41·3	34·0	37·7	−6·2	2	0·05	−0·72	30	32

The above observations made in "Scotland, N. and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean* for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean* for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	40	18	31·7	23·7	27·7	−10·6	2	0·05	−0·47	*	*
	Aberdeen	41	16	34·6	21·7	28·2	− 9·2	2	0·04	−0·61	23	48
	Glenalmond	45	14	43·3	18·8	31·1	− 6·9	0	—	?	?	?
	Leith	46	22	36·6	27·3	32·0	− 6·2	2	0·02	−0·40	*	*
2. ENGLAND, N.E.	Alnwick Castle	44	24	37·1	29·7	33·4	− 4·6	0	—	?	*	*
	Shields	44	25	39·6	33·0	36·3	− 1·7	1	0·04	−0·46	*	*
	Durham	44	24	38·4	29·4	33·9	− 4·1	0	—	−0·55	8	16
	York	44	25	38·7	29·3	34·0	− 4·0	0	—	−0·49	?	?
	Spurn Head	44	31	41·4	36·0	38·7	+ 0·9	3	0·14	?	*	*
	Kelstern (Lincolnsh.) ⁂	42	26	37·8	32·0	34·9	− 3·1	3	0·12	−0·28	13	25
3. ENGLAND, E.	Hillington ⁂	43	28	39·3	32·0	35·7	− 2·3	3	0·09	−0·39	17	32
	Yarmouth	42	30	39·6	35·6	37·6	− 0·3	3	0·09	−0·54	*	*
	Geldeston	43	30	40·1	33·7	36 9	− 1·1	3	0·07	−0·37	19	35
	Cambridge	44	26	39·4	31·6	35·5	− 2·6	3	0·07	−0·33	17	32
	Rothamsted	42	29	38·3	32·3	35·3	− 3·6	4	0·07	−0·62	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	25	38·1	29·1	33·6	− 4·4	0	—	−0·45	*	*
	Nottingham	44	33	39·3	30·7	35·0	− 3·5	2	0·05	−0·55	*	*
	Loughborough	43	25	38·8	32·1	35·5	− 3·3	2	0·04	−0·51	*	*
	Leicester	43	27	38·7	32·8	35·8	− 3·2	2	0·04	−0·51	10	19
	Birmingham (Oscott)	43	24	38·0	30·1	34·1	− 5·2	1	0·02	−0·70	*	*
	Shrewsbury ⁂	43	22	36·0	28·5	32·3	− 7·2	0	—	−0·42	*	*
	Churchstoke ⁂	42	19	35·4	27·4	31·4	− 9·0	1	0·02	?	10	19
	Hereford ⁂	44	25	37·3	31·1	34·2	− 6·0	0	—	−0·77	*	*
	Cirencester	43	26	38·3	30·4	34·4	− 5·6	0	—	−0·89	16	30
	Oxford	43	29	38·7	33·0	35·9	− 3·1	4	0·06	−0·53	17	31
5. ENGLAND, S.	London†	44	31	40·4	34·3	37·4	− 2·1	0	—	−0·61	11	20
	Marlborough ⁂	41	27	37·1	31·9	34·5	− 5·7	1	0·02	−0·80	*	*
	Strathfield Turgiss ⁂	43	28	38·8	31·3	35·1	− 5·0	0	—	−0·69	*	*
	Dover	45	31	41·0	36·4	38·7	− 0·6	1	0·04	−0·76	*	*
	Hastings (St. Leonard's)	45	30	40·9	33·5	37·2	− 2·0	0	0·02‡	−0·70	*	*
	Southampton	43	28	39·4	31·5	35·5	− 5·1	0	—	?	16	29
	Hurst Castle	44	28	40·3	33·3	36·8	− 4·2	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	24	41·3	27·4	34·4	− 5·2	1	0·06	?	*	*
	Glasgow	45	24	35·2	27·2	31·2	− 6·9	2	0·03	−0·69	8	16
	Ardrossan	50	24	37·6	29·3	33·5	− 5·5	0	—	−1·13	*	*
	Silloth (Cumberland)	44	20	35·1	28·6	31·9	− 7·0	0	—	−0·89	11	22
	Douglas (Isle of Man)	49	22	40·7	30·3	35·5	− 5·5	0	—	−1·26	22	42
7. ENGLAND, N.W.	Barrow-in-Furness	46	25	40·9	31·3	36·1	− 3·9	0	—	?	*	*
	Stonyhurst	44	21	36·7	29·0	32·9	− 6·1	0	—	−1·06	16	31
	Blackpool ⁂	45	18	36·9	27·2	32·1	− 7·9	0	—	−0·76	*	*
	Manchester	45	17	37·1	26·4	31·8	− 6·5	0	—	−0·76	*	*
	Liverpool Obsy (Bidston)	45	25	37·0	31·3	34·2	− 5·8	0	—	−0·55	*	*
	Llandudno ⁂	46	28	40·2	33·6	36·9	− 4·1	1	0·03	?	20	38
	Holyhead	47	29	41·1	34·4	37·8	− 4·2	2	0·08	−0·88	*	*
8. ENGLAND, S.W.	Pembroke	47	28	39·4	34·0	36·7	− 5·3	0	—	−1·10	30	56
	Barnstaple										*	*
	Falmouth	44	33	42·2	37·5	39·9	− 5·0	1	0·01	−0·99	4	7
	Plymouth	45	29	40·9	33·8	37·4	− 5·7	0	—	−1·13	*	*
	Prawle Point	44	33	41·0	36·1	38·6	− 5·2	0	—	?	*	*
9. IRELAND, N.	Londonderry	45	24	37·7	29·8	33·8	− 6·4	2	0·02	−0·97	*	*
	Mullaghmore	47	23	41·4	34·3	37·9	− 3·1	0	—	?	*	*
	Markree Castle	48	22	39·1	29·8	34·5	− 6·5	2	0·02	−0·72	18	35
	Brookeborough	45	23	38·2	30·7	34·5	− 5·3	0	—	?	*	*
	Armagh	45	22	37·5	31·0	34·3	− 6·6	0	0·01‡	−0·69	16	31
	Donaghadee	47	29	41·1	36·4	38·8	− 2·1	0	—	?	*	*
10. IRELAND, S.	Dublin	46	26	39·7	34·1	36·9	− 4·6	2	0·06	−0·55	15	28
	Parsonstown	45	14	38·4	27·9	33·2	− 7·0	2	0·08	−0·72	22	42
	Waterford										*	*
	Roche's Point	47	35	44·6	38·6	41·6	− 1·4	0	—	−1·45	*	*
	Valentia	53	30	47·3	36·4	41·9	− 1·2	0	—	−1·63	33	61
	Foynes	47	23	41·6	32·1	36·9	− 4·3	1	0·03	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ Dew.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 2.] WEEK ENDING MONDAY, JANUARY 17, 1881. [*Price 2d.*

[*Annual subscription, post paid,* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Shrewsbury, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	44	5	30	17	24	14 below.	4	4	0 (average).	15	30
	2. ENGLAND, N.E.	37	0	30	17	23	14 below.	3	3	0 (average).	20	37
	3. ENGLAND, E.	36	4	30	17	23	15 below.	3	3	2 less.	19	34
	4. MID. COUNTIES	39	1	29	14	21	18 below.	2	1	5 less.	12	22
	5. ENGLAND, S.	37	6	32	20	26	13 below.	2	1	6 less.	13	23
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	36	0	29	16	23	17 below.	2	2	1 less.	11	21
	7. ENGLAND, N.W.	39	0	32	19	25	14 below.	3	5	4 less.	19	35
	8. ENGLAND, S.W.	44	11	37	25	31	12 below.	4	6	5 less.	22	38
	9. IRELAND, N.	38	−2	32	17	24	16 below.	5	4	4 less.	11	19
	10. IRELAND, S.	43	9	33	22	27	14 below.	3	7	3 less.	17	30

General Remarks.

Weather during this period was rather dull generally with some snow, hail, or sleet in all parts of the Kingdom, but the amounts recorded (except in the extreme N.) were not very large.

Temperature was greatly below the mean in all districts, the deficit ranging from 12° in "England, S.W.," to 18° in the "Midland Counties." The weather was least cold in "England, S.W.," where the average temperature was 32°, and coldest in the "Midland Counties," where the average for the week was as low as 21°. The lowest reading of the sheltered thermometer was 2° below zero, and occurred at Markree Castle on the 16th, while at Blackpool, Silloth, and Durham zero was reached. In most other places the minima were under 10°, and even at Plymouth a reading as low as 17° was registered. Temperature on the ground and snow was of course much lower, minus 2° being recorded on the grass at Nottingham and on the snow in London.

Rainfall was about equal to the mean in "Scotland, E.," and "England, N.E.," but less in all other districts.

Bright sunshine was rather deficient, the percentages ranging from 19 in "Ireland, N.," to 38 in "England, S.W."

Wind was at first generally moderate from between N.W. and N., but by the 14th an easterly breeze appeared at all excepting the most northern stations. On the 15th, however, the northerly wind again prevailed, but on the 16th calms or light westerly breezes were experienced, and at the close of the period a strong and increasing south-easterly to easterly wind was setting in on the south-western and southern coasts, accompanied by heavy falls of snow.

Q 4657. 100.—1/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 17, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 11.

Weather fine at several northern stations, more or less cloudy generally, with snow in the S.E. of England and N.E. of Scotland. No change during day, snow ceasing in S.E. but continuing heavily in N.

Temperature fallen except in the N.W. and over France; sharp frost in N., readings ranging from 38° at Scilly to 26° at York. Frost holding all day and thermometer falling to between 16° and 20° in the N. at night.

Wind between N.W. and N.E. on most of our coasts and easterly over France. Moderate or light generally. North-westerly winds blowing all day, rather freshly in some places.

Sea rough at the mouth of the Humber.

Barometer falling everywhere—quickly in N. Area of comparatively high pressure lying over these Islands, with one depression near the Shetlands and a second over the Baltic. Depression over North Sea, becoming deeper and and passing southward.

Wednesday, January 12.

Weather fine in the N.W. and N.E., cloudy or dull elsewhere, with hail and snow over the Channel. Snow falling at Shields all day, but weather fine generally.

Temperature risen over Scotland and the Continent generally, fallen several degrees elsewhere. Readings ranging from 39° at Scilly to 18° at Nottingham. Frost holding all day, and very severe at night.

Wind northerly to north-easterly in the N. and W. and westerly in the S.E. Blowing a gale at Aberdeen but moderate in most other places. Gale continuing all day and extending southward to Shields. Little other change.

Sea rough on our N.E. coasts.

Barometer falling in nearly all places except Sweden and N. Scotland. Centre of depression noticed on 11th shown off the Yorkshire coast. Pressure increasing in N. and W. during day and disturbance travelling south-eastward towards Holland.

Thursday, January 13.

Weather fine in Ireland and Scotland, cloudy elsewhere; snow falling at Nottingham and Cambridge. Snowing all day at Shields, but fine generally.

Temperature risen fast in the N.E. and E. of England, fallen briskly elsewhere. Readings ranging from 35° at Scilly, to 14° at Wick. Weather a little milder during day, but severe frost again at night.

Wind north-easterly to northerly on most coasts, moderate generally, but blowing a gale in Irish Sea. Northerly winds holding all day at most stations, but S.W. wind blowing at Mullaghmore.

Sea rough on the E. coast of Great Britain and E. of Ireland.

Barometer risen over these Islands, fallen on the Continent. Depression shown over Holland, and area of high readings forming in W. Mercury falling in W. later, rising in E.

Friday, January 14.

Weather fine in N. and N.W., and over N. Germany, cloudy in most places; fog in the N. of England, and snow at Leith, Yarmouth, and over the Straits of Dover. Little change later.

Temperature risen briskly Ireland, fallen fast elsewhere. Frost very severe, readings ranging from 39° at Scilly, to 12° at Oxford, and Aberdeen. Sharp frost all day, and thermometer very low at night, minimum 2° at Nottingham.

Wind easterly and moderate to fresh over France and our S.W. and W. coasts, lighter and more variable elsewhere. Easterly breezes extending to the S.E. later, and northerly wind springing up in the N.

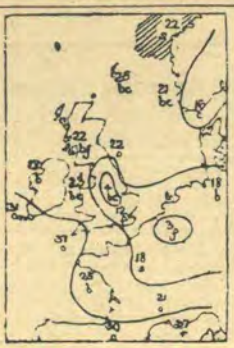
Sea rough in N. Ireland.

Barometer rising over Great Britain and N. France, falling elsewhere. Readings high and uniform over these Islands, with low pressures over Spain and N. Norway. Pressure recovering in S.W. later, decreasing generally.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, January 15.

Weather moderately fair generally, but cloud reported from several stations and fog in many places. Fine during greater part of day, but rather heavy snow in N. Scotland.

Temperature risen fast in N. Scotland, fallen quickly elsewhere. Readings ranging from 37° at Scilly to 4° at Nottingham. Intense frost all day. Maxima between 18° and 40°, and minima in night again low.

Wind variable and generally moderate to fresh; easterly to north-easterly in the S. and W., and northerly to westerly in the N. and E. Northerly breezes prevailing during day.

Sea moderate to smooth.

Barometer rising in S.W. and over France, falling elsewhere. Pressure comparatively high and uniform over these Islands and N. France with depressions—one near Toulon and a second over the Skager Rack. Falling slowly during day.

Sunday, January 16.

Weather fine in nearly all parts of these Islands but more cloudy on the Continent. Snow falling at Lyons and Mullaghmore. Very fine all day.

Temperature fallen in most places. Readings ranging from 39° at Scilly to 7° at Nottingham. Maxima between 23° and 44° and lowest reading in following night 5° at Aberdeen and Ardrossan.

Wind varying considerably but between W. and N.W. on most coasts. Light to moderate in force. Light westerly winds prevailing all day.

Sea moderate or slight.

Barometer rising except at some of our northern stations. Pressure rather irregularly distributed, but highest over S.W. France and lowest over Baltic. Barometer rising a little in the S.E. all day.

Monday, January 17.

Weather fine in Scotland, N. Ireland, and south-eastern England, cloudy or dull generally, with fog in many places. Fine all day in N. and E., but dull snowy weather extending over us from the S.W.

Temperature risen in W. and S.W., fallen fast in E. and N. Frost very severe; readings ranging from 41° at Scilly to 9° at Nottingham and 6° at Aberdeen. Thermometer rising fast in E. later.

Wind easterly and south-easterly over France and our S.W. and W. coasts, and moderate to fresh in force. Light from the westward in the E. South-easterly winds spreading over us later and increasing in force.

Sea rough round Scilly Islands.

Barometer rising in the E. of England, falling elsewhere—quickly in W. and S.W. Mercury falling fast at Rochefort later, and deep depression appearing in S.W. Area of high pressure lying over North Sea.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	33	19	30·9	22·0	26·5	−12·5	7	1·24	+0·55	?	?
	Stornoway											
	Wick	38	5	29·6	15·4	22·5	−16·0	6	1·60	+1·12	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	45	32	41·7	34·7	38·2	−2·5	5	1·08	−0·11	*	*
	Jersey (Noirmont)	41	28	36·4	31·1	33·8	−9·5	6	0·52	−0·27	21	35

The above observations made in "Scotland. N. and the "Channel Islands" are not included in the Summary on page 1.

ERRATUM.—For the "Percentage of possible Duration" for Jersey for the week ending January 10th, read "52" instead of "32."

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	33	5	26·4	17·0	21·7	−16·4	4	0·38	−0·17	*	*
	Aberdeen	34	5	27·4	17·1	22·3	−14·7	5	0·81	+0·16	20	40
	Glenalmond	44	8	34·8	14·9	24·9	−12·7	1	0·02	?	10	20
	Leith	34	9	31·0	18·9	25·0	−12·7	4	0·50	+0·07	*	*
2. ENGLAND, N.E.	Alnwick Castle	35	4	29·9	15·0	22·5	−15·0	0	–	?	*	*
	Shields	36	9	30·7	17·6	24·2	−13·4	4	0·58	+0·13	*	*
	Durham	37	0	30·3	13·7	22·0	−15·5	3	0·64	+0·15	24	45
	York	33	3	27·6	14·3	21·0	−16·8	4	0·20	−0·25	?	?
	Spurn Head	37	20	33·9	24·3	29·1	− 8·1	3	0·06	?	*	*
	Kelstern (Lincolnsh.) ⊕	33	3	28·1	14·0	21·1	−16·4	4	0·36	−0·04	16	29
3. ENGLAND, E.	Hillington ⊕	34	4	28·4	12·7	20·6	−16·7	4	0·47	−0·02	? 14	? 25
	Yarmouth	33	10	29·7	19·4	24·6	−12·8	4	0·55	−0·05	*	*
	Geldeston	36	10	30·1	16·9	23·5	−13·8	3	0·31	−0·09	22	39
	Cambridge	36	11	30·3	17·1	23·7	−14·2	3	0·06	−0·33	21	38
	Rothamsted	34	7	30·1	17·2	23·7	−14·8	2	0·06	−0·65	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	34	7	29·3	14·1	21·7	−16·2	1	0·11	−0·41	*	*
	Nottingham	33	2	27·9	11·7	19·8	−18·2	3	0·15	−0·35	*	*
	Loughborough	34	2	28·8	12·6	20·7	−17·6	3	0·16	−0·39	*	*
	Leicester	34	5	28·3	15·9	22·1	−16·4	2	0·13	−0·38	2	4
	Birmingham (Oscott)	39	11	32·1	17·0	24·6	−14·4	2	0·06	−0·64	*	*
	Shrewsbury ⊕	32	1	27·6	8·5	18·1	−21·1	2	0·12	−0·29	*	*
	Churchstoke ⊕	34	6	26·8	14·9	20·9	−18·9	1	0·09	?	10	18
	Hereford ⊕	37	1	30·9	12·1	21·5	−18·4	1	0·11	−0·68	*	*
	Cirencester	32	2	26·4	13·1	19·8	−20·0	1	0·18	−0·74	20	36
	Oxford	35	9	30·4	17·0	23·7	−15·3	1	0·08	−0·52	16	29
5. ENGLAND, S.	London†	36	9	30·6	17·7	24·2	−14·7	1	0·10	−0·51	10	18
	Marlborough ⊕	36	7	31·3	14·3	22·8	−17·1	1	0·10	−0·76	*	*
	Strathfield Turgiss ⊕	35	6	31·4	15·5	23·5	−16·3	1	0·08	−0·63	*	*
	Dover	36	20	32·4	25·9	29·2	− 9·3	5	0·20	−0·60	*	*
	Hastings (St. Leonard's)	37	21	33·1	24·2	28·7	− 9·9	2	0·11	−0·64	*	*
	Southampton	37	13	?33·6	21·2	?27·4	?−12·5	2	0·07	?	16	28
	Hurst Castle	37	19	34·0	24·0	29·0	−11·6	1	0·03	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)										*	*
	Glasgow	31	9	26·9	15·3	21·4	−16·6	2	0·16	−1·09	1	2
	Ardrossan	34	15	31·4	19·8	25·4	−13·3	1	0·09	−1·10	*	*
	Silloth (Cumberland)	32	0	24·8	10·5	17·6	−20·9	1	0·15	−0·77	14	26
	Douglas (Isle of Man)	36	12	33·3	17·8	25·6	−15·2	5	0·42	−0·88	19	35
7. ENGLAND, N.W.	Barrow-in-Furness	39	15	32·1	20·1	26·1	−12·2	4	0·31	?	*	*
	Stonyhurst	33	7	29·3	17·2	23·3	−15·4	2	0·11	−0·92	25	46
	Blackpool ⊕	35	0	31·2	10·6	20·9	−18·6	3	0·32	−0·43	*	*
	Manchester	36	5	28·8	15·1	22·0	−15·8	3	0·45	−0·30	*	*
	Liverpool Obsy (Bidston)	34	10	31·1	18·7	24·9	−14·8	3	0·71	+0·18	*	*
	Llandudno ⊕	36	18	34·9	23·3	29·1	−11·2	4	1·40	?	13	24
	Holyhead	38	24	34·6	28·1	31·4	−10·4	4	0·38	−0·59	*	*
8. ENGLAND, S.W.	Pembroke	39	19	35·9	25·9	30·9	−11·1	5	0·68	−0·48	18	32
	Arlington (N. Devon)‡	35	11	33·3	18·7	26·0	−16·0	4	0·34	?	*	*
	Falmouth	41	26	37·4	28·8	33·1	−10·9	6	0·76	−0·24	26	44
	Plymouth	39	17	35·6	22·5	29·1	−13·7	4	0·53	−0·66	*	*
	Prawle Point	44	24	40·3	26·4	33·4	− 9·6	2	? 0·67	?	*	*
9. IRELAND, N.	Londonderry	36	12	30·8	17·9	24·4	−15·6	6	0·63	−0·37	*	*
	Mullaghmore	38	14	35·3	22·9	29·1	−11·4	5	0·21	?	*	*
	Markree Castle	35	−2	30·7	7·0	18·9	−21·6	5	0·41	−0·35	10	18
	Brookeborough	35	8	30·4	13·9	22·2	−16·8	3	0·40	?	*	*
	Armagh	33	9	29·2	18·2	23·7	−16·4	4	0·16	−0·56	11	20
	Donaghadee	35	14	33·7	22·9	28·3	−12·2	4	0·47	?	*	*
10. IRELAND, S.	Dublin	34	17	31·6	21·9	26·8	−14·5	4	0·99	+0·38	? 10	? 18
	Parsonstown	34	11	30·1	16·7	23·4	−16·1	2	? 0·55	?−0·28	13	24
	Waterford	38	10	32·1	18·8	25·5	−15·4	3	1·21	?	*	*
	Roche's Point	39	23	35·9	27·1	31·5	−11·1	3	0·85	−0·65	*	*
	Valentia	43	25	40·7	27·4	34·1	− 9·0	4	0·38	−1·34	27	48
	Foynes	36	9	29·5	17·1	23·3	−17·4	3	0·15	?	*	*

Stations marked ⊕ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ Arlington (N. Devon) has taken the place of Barnstaple, which station has now ceased reporting.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 3.] WEEK ENDING MONDAY, JANUARY 24, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Shrewsbury, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	40	4	33	18	25	13 below.	4	8	3 more.	15	28
	2. ENGLAND, N.E.	35	5	31	20	25	12 below.	4	2	1 less.	4	8
	3. ENGLAND, E.	40	4	31	16	24	15 below.	5	3	2 less.	9	15
	4. MID. COUNTIES	39	0	29	15	22	17 below.	2	2	4 less.	10	17
	5. ENGLAND, S.	36	4	32	19	26	14 below.	3	6	3 less.	10	16
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	38	7	32	20	26	13 below.	2	? 1	? 11 less.	15	28
	7. ENGLAND, N.W.	38	11	32	21	27	13 below.	1	1	7 less.	14	24
	8. ENGLAND, S.W.	41	14	33	23	28	14 below.	2	? 3	? 9 less.	21	36
	9. IRELAND, N.	39	0	33	19	26	15 below.	1	1	8 less.	19	33
	10. IRELAND, S.	44	6	33	22	27	14 below.	2	1	10 less.	22	39

General Remarks.

Weather has continued exceedingly cold and wintry in all places. At the commencement of the period it was exceedingly wild and squally, and enormous quantities of snow fell over England—especially in the S.

Temperature was again much below the mean in all districts, the deficit ranging from 12° in "England, N.E.," to 17° in the "Midland Counties." The lowest reading recorded at any of our stations was minus 4° at Wick on the 18th. In most other places the minima were registered on the 22nd and were as low as zero at Cirencester and over central Ireland; in nearly all parts of the Kingdom the minima were below 10°. The thermometer was highest on the 23rd when a slight temporary thaw occurred.

Rainfall was more than the mean in "Scotland, E.," and less in all other districts; but in consequence of the violence of the gale on the 18th the snow was not retained in the gauges so that the above measurements are probably far short of the correct amounts.

Bright sunshine was more prevalent in the S.W. and W. than elsewhere, the percentages varying from 39° in "Ireland, S." to 8° in "England, N.E."

Wind has been generally between N. and E., but at the close of the period a westerly breeze set in at the Scotch stations. In force it varied greatly; on the 18th, a violent easterly to north-easterly gale was raging at all except our most northern stations, and continued in some places through part of the following day; but on the 20th, fresh northerly breezes were general, and from that time till the close of the period moderate breezes, very light airs, or calms were experienced on all but our extreme south-western coasts.

Q 4805. 100.—1/81. Wt. 26. E. & S.

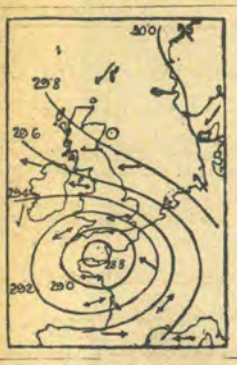
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 24, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, January 18.

Weather very unsettled; sky clear in Scotland, cloudy or dull generally, with heavy snow, and rain over France and the Channel. Exceptionally severe snowstorm occurring over these Islands during day.

Temperature fallen in the S.W., risen elsewhere—quickly in the E., readings ranging from 34° at Scilly and Shields to 12° at Aberdeen. Maxima between 30° and 39° and minima generally between 25° and 30°.

Wind westerly over France, easterly over the Netherlands, England, and Ireland, and variable in Scotland. Fresh to strong gales blowing at all except our northern ports and in S. Ireland. Violent gale blowing all day over England.

Sea rough in the E., S.. and W.

Barometer rising over Scandinavia and Scotland, falling elsewhere; decrease nearly an inch in the N.W. of France and deep depression lying near Jersey. Pressure giving way all day except in N.W., and disturbance advancing north-eastward.

Wednesday, January 19.

Weather very fine on our extreme western coasts, still dull generally, with snow over central, northern, and south-western England. Sky cloudy all day except in the N. and W., with occasional snow squalls in the S.

Temperature fallen except at some Scotch stations. Frost severe, readings ranging from 35° at Scilly to 18° at Parsonstown. Maxima between 28° and 38°, minima in following night as low as 12° over central England.

Wind north-easterly and northerly on our coasts, westerly over France and south-westerly to south-easterly in N. Germany. Still blowing strongly, but gales subsided except at Scilly and in W. France. Little change later.

Sea rough in the E. and S., high in S.W.

Barometer rising in W. and S.W., and depression filling up, but falling elsewhere. High pressure still shown to northward of Scotland and depression over the Channel. Mercury rising briskly later and disturbance passing eastward.

Thursday, January 20.

Weather fine or moderately so generally, but cloudy with snow in the E. of Scotland and N.E. of England. Snow continuing all day in the E.,—fine elsewhere.

Temperature fallen generally,—change in S.E. between 10° and 15°. Readings ranging from 37° at Scilly to 12° at Oxford. Maxima between 25° and 35°, and minima 4° at Cambridge, and 5° at York.

Wind north-easterly over the North Sea, northerly on nearly all our coasts, and northerly to north-westerly over France. Rather strong generally, and blowing gale in N. Scotland and over France. Northerly breezes holding all day, and blowing strongly in N. Scotland and N. Ireland.

Sea rough in the E. and S., and in W. France.

Barometer rising everywhere,—very quickly in the South. Depression noticed over Channel, moving away eastward over Germany. Pressure increasing all day, but shallow disturbance forming in W., and moving southward.

Friday, January 21.

Weather cloudy, with snow in Paris and on our S.W. and N.E. coasts, fine and bright in most other places. Snow continuing all day in those districts, weather otherwise fine.

Temperature risen several degrees in S. England and in the countries to the eastward of the North Sea, fallen elsewhere. Frost very severe, readings ranging from 33° at Scilly and Sumburgh Head, to 6° at Parsonstown, 9° at Cambridge, and 18° at Lyons. Intense frost at night.

Wind northerly on our northern coasts, south-easterly to easterly elsewhere, fresh in the S. and W. Easterly wind continuing all day, and rising to a gale at Scilly.

Sea rough near Valentia and Shields.

Barometer rising over these Islands and N. France, falling over the Bay of Biscay and the Baltic. Area of high pressure forming in N. Scotland. Pressure giving way in N. later, and anticyclone working to the southward over Ireland.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 22.

Weather fine in the N.W. of these Islands and France, more or less cloudy in most other places. Some fog and snow reported over central and eastern England. Dull and foggy all day except in W.

Temperature fallen over France and our southern and central stations, risen elsewhere—quickly in the N. Readings ranging from 36° at Sumburgh Head to 9° at Oxford. Thermometer rising steadily during day.

Wind easterly over France and our S.W. coasts—and strong in force, northerly to north-westerly elsewhere, and light or moderate. Scarcely any change later.

Sea rough in the S.W.

Barometer falling in the E. and N., as well as over Scandinavia and the S. of France, but rising in the W. and S.W. Anticyclone shown over Ireland. Pressure decreasing slowly all day.

Sunday, January 23.

Weather varying a good deal but generally fine in the E. of Great Britain, the S. of Ireland, and to the eastward of the North Sea. Fine at all the more northern stations later, but dull and gloomy in the S.

Temperature fallen fast in N. Scotland and slightly in Ireland, rising briskly elsewhere. Slight thaw taking place, and readings ranging from 39° at Scilly to 20° at Wick. Maxima higher than of late.

Wind between N.E. and N.W. on most of our coasts, and light or moderate in force, but S.W. breezes reported from N. Ireland. Moderate or fresh south-westerly breezes reported from Norway and north-easterly winds from France. Very light northerly airs in England during day.

Sea moderate or slight.

Barometer rising at most of the Continental stations and over our south-eastern districts, falling in the W. and N. Readings highest over Ireland and lowest in the N. of Norway. Barometer falling rather briskly in Norway later.

Monday, January 24.

Weather fine at some western and north-western stations and over Denmark, cloudy or dull elsewhere, with dense fog in the S.E. Dull and cloudy all day except in extreme W., fog in several places.

Temperature risen in the countries to the eastward of the North Sea, in N. Scotland, and S. Ireland, fallen elsewhere Readings ranging from 40° at Scilly to 17° at Shields. Frost holding in S.E. all day; very cold night over England.

Wind westerly in the N. and easterly in the S., with calms in intervening region. Wind rather strong in some parts of France and Scandinavia. Scarcely any change during day.

Sea slight or smooth.

Barometer rising in the S.E. and over the Netherlands, falling generally—quickly in the N. Anticyclone shown in the S.E., with low pressures in Lapland and over Spain. Barometer falling slowly everywhere during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	40	22	35·4	25·4	30·4	−8·5	6	1·72	+1·07	*	*
	Stornoway											
	Wick	39	−4	34·4	16·4	25·4	−13·0	4	0·51	+0·09	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	42	29	38·1	31·1	34·6	−10·9	6	0·65	−0·48	*	*
	Jersey (Noirmont)	43	22	38·7	28·7	33·7	−9·3	3	0·46	−0·28	25	41

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	37	5	32·3	17·1	24·8	−13·2	3	0·91	+0·41	*	*
	Aberdeen	38	4	33·9	16·7	25·3	−11·7	5	0·70	+0·09	16	30
	Glenalmond	40	11	32·7	19·6	26·2	−11·7	?	—	?	14	26
	Leith	34	9	32·4	17·1	24·8	−13·2	4	0·83	+0·36	*	*
2. ENGLAND, N.E.	Alnwick Castle	35	15	32·0	22·9	27·5	−10·0	?	?	?	*	*
	Shields	35	10	32·1	19·6	25·9	−12 0	6	0·45	+0·04	*	*
	Durham	35	8	32·4	16·1	24·3	−13·5	4	0·18	−0·24	6	11
	York	35	5	30·4	16·4	23·4	−14·5	4	0·21	−0·19	2	4
	Spurn Head	34	19	31·0	24·0	27·5	− 9·9	3	0·03	?	*	*
	Kelstern (Lincolnsh.) ℳ	34	11	29·0	17·7	23·4	−14·5	4	0·22	−0·18	5	9
3. ENGLAND, E.	Hillington ℳ	34	9	30·5	15·4	23·0	−14·5	5	0·07	−0·41	3	5
	Yarmouth	35	15	31·9	22·3	27·1	−10·4	5	0·30	−0·30	*	*
	Geldeston	40	5	33·4	16·2	24 8	−12·7	6	0·20	−0·20	11	19
	Cambridge	35	4	29·7	13·4	21·6	−16·8	2	0·46	+0·11	13	22
	Rothamsted	34	5	29·7	?13·1	?21·4	?−17·6	?	?	?	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	35	6	30·4	18·4	24·4	−13·7	1	0·09	−0·32	*	*
	Nottingham	37	9	29·9	16·6	23·3	−15·0	2	0·11	−0·30	*	*
	Loughborough	39	7	30·1	13·0	21·6	−16·8	3	0·21	−0·33	*	*
	Leicester	37	10	29·0	15·9	22·5	−16·0	2	0·19	−0·31	5	9
	Birmingham (Oscott)	34	10	29·0	17·0	23·0	−16·0	2	0·28	−0·42	*	*
	Shrewsbury ℳ	33	3	29·4	11·7	20·6	−19·2	2	0·08	−0·37	*	*
	Churchstoke ℳ	32	6	24·8	15·2	20·0	−19·0	2	0·45	?	7	12
	Hereford ℳ	35	3	29·9	10·7	20·3	−19·7	3	0·42	−0·33	*	*
	Cirencester	37	0	26·7	14·5	20·6	−19·2	?	?	?	15	26
	Oxford	37	7	29·1	11·6	20·4	−18·6	1	0·10	−0·49	11	19
5. ENGLAND, S.	London†	35	10	31·4	18·1	24·8	−14·2	3	0·41	−0·15	6	10
	Marlborough ℳ	36	12	28·9	17·4	23·2	−16·8	?	?	?	*	*
	Strathfield Turgiss ℳ	36	4	29·7	12·0	20·9	−19·0	2	0·58	−0·17	*	*
	Dover	36	18	32·3	22·6	27·5	−11·5	3	0·33	−0·40	*	*
	Hastings (St. Leonard's)	36	17	35·3	24·3	29·8	− 9·1	3	0·32	−0·39	*	*
	Southampton	36	13	31·1	19·0	25·1	−14·9	3	0·48	?	13	22
	Hurst Castle	35	15	31·7	20·7	26·2	−14·3	3	1·43	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	37	16	34·0	23·3	28·7	−10·2	?	?	?	*	*
	Glasgow	36	13	31·3	19·8	25·6	−11·5	3	0·08	−1·16	7	13
	Ardrossan	38	12	34·0	16·9	25·5	−13·0	2	0·07	−1·08	*	*
	Silloth (Cumberland)	34	7	28·6	15·6	21·2	−17·7	0	—	−0·90	19	35
	Douglas (Isle of Man)	38	17	33·5	23·0	28·3	−12·5	4	?0·12	?−1·14	20	36
7. ENGLAND, N.W.	Barrow-in-Furness	35	18	33·1	21·7	27·4	−11·8	1	0·02	?	*	*
	Stonyhurst	35	13	30·1	18·0	24·1	−14·7	1	0·01	−1·00	14	25
	Blackpool ℳ	34	11	30·9	17·8	24·4	−15·5	0	—	−0·70	*	*
	Manchester	34	14	29·8	18·9	24·4	−13·6	0	—	−0·70	*	*
	Liverpool Obs'y (Bidston)	33	19	30·4	21·4	25·9	−14·0	2	0·08	−0·48	*	*
	Llandudno ℳ	38	17	34·4	23·5	29·0	−11·5	1	0·12	−0·66	13	23
	Holyhead	38	25	34·9	28·4	31·7	− 9·8	3	0·15	−0·75	*	*
8. ENGLAND, S.W.	Pembroke	39	20	34·3	24·9	29·6	−12·4	1	0·05	−1·06	24	41
	Arlington (N. Devon)	36	14	30·0	20·1	25·1	−16·4	2	0·42	?	*	*
	Falmouth	41	23	35·0	27·1	31·1	−13·0	7	0·44	−0·53	18	30
	Plymouth	39	17	32·8	21·8	27·3	−15·2	? 1	?0·14	?−0·99	*	*
	Prawle Point	?39	17	?33·6	?22·7	?28·2	?−14·8	?	?	?	*	*
9. IRELAND, N.	Londonderry	34	12	31·7	19·5	25·6	−14·4	3	0·12	−0·86	*	*
	Mullaghmore	39	19	35·3	23·9	29·6	−11·3	1	0·07	?	*	*
	Markree Castle	34	1	31·7	12·0	21·9	−18·6	0	—	−0·75	22	39
	Brookeborough	34	0	31·4	11·6	21·5	−17·5	1	0·13	?	*	*
	Armagh	32	11	30·2	18·9	24·6	−15·4	1	0·03	−0·67	15	27
	Donaghadee	38	17	35·1	25·6	30·4	−10·1	1	0·09	?	*	*
10. IRELAND, S.	Dublin	35	20	33·0	24·9	29·0	−12·1	5	0·20	−0·40	15	26
	Parsonstown	34	6	29·1	12·6	20·9	−19·0	1	0·08	−0·72	13	23
	Waterford									?	*	*
	Roche's Point	38	19	34·3	24·0	29·2	−13·3	0	—	−1·45	*	*
	Valentia	44	24	37·7	26·3	32·0	−11·0	4	0·13	−1·53	39	67
	Foynes	33	16	29·9	20·4	25·2	−15·8	0	—	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 4.] WEEK ENDING MONDAY, JANUARY 31, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Shrewsbury, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	43	9	38	26	32	6 below.	2	2	3 less.	16	29
	2. ENGLAND, N.E.	47	2	36	25	30	8 below.	4	1	3 less.	7	12
	3. ENGLAND, E.	49	1	39	27	33	5 below.	5	5	0 (average).	12	19
	4. MID. COUNTIES	51	1	37	26	32	8 below.	5	3	2 less.	8	14
	5. ENGLAND, S.	52	13	42	31	37	4 below.	5	8	1 more.	8	13
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	48	4	39	29	34	5 below.	5	4	7 less.	6	10
	7. ENGLAND, N.W.	49	9	40	28	34	6 below.	4	3	5 less.	16	17
	8. ENGLAND, S.W.	51	11	45	34	40	3 below.	6	11	0 (average).	17	28
	9. IRELAND, N.	48	4	42	30	36	4 below.	5	3	6 less.	14	23
	10. IRELAND, S.	53	14	43	32	38	4 below.	4	6	2 less.	22	37

General Remarks.

Weather during this period has undergone a very decided change. At the commencement it was very cold and wintry, but on the 26th, warmer weather set in over Ireland and spread to all our stations, accompanied by occasional showers of rain, with mist or fog. A brilliant display of aurora was seen in nearly all parts of the Kingdom during the evening of the 31st.

Temperature has been much higher than of late, but on the whole has remained below the mean for the time of year, the deficit ranging from 3° in "England, S.W." to 8° in the "Midland Counties" and "England, N.E." This is largely attributable to the fact that the thermometer was extremely low during the first two days when it fell to 1° at Churchstoke and Hillington, to 2° at Durham, and to 4° at Geldeston, Silloth, and Markree. In all districts the minima were below 15°. The maxima occurred generally on the 31st, and were as high as 52° or 53° over the southern parts of England and Ireland.

Rainfall was equal to the mean in "England, E." and "England, S.W.," and slightly more in "England, S.," but in all other districts it was less than the mean for the season.

Bright sunshine shows an increase in the north-eastern districts, but a decrease elsewhere, the percentage of total possible duration ranging from 37 in "Ireland, S." and 29 in "Scotland, E.," to 10 in "Scotland, W."

Wind at the commencement of the period was westerly in Scotland, and moderate from the eastward elsewhere, but towards the evening of the 26th a fresh or strong easterly breeze (reaching a gale in some places) set in on our S.W. coasts and soon extended to all parts of the Kingdom, and during the remainder of the week moderate or fresh southerly breezes were experienced very generally.

Q 4893. 100.—2/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending January 31, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, January 25.

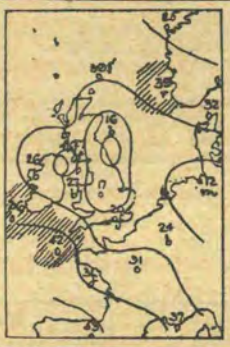
Weather rather variable, but generally fine except over central and eastern England; dense fog prevailing at inland stations. Little change during day.

Temperature risen fast in S.W. France, fallen elsewhere; intense frost prevailing; readings ranging from 37° in the S.W. to 11° at Nottingham. Thermometer low all day, and frost very sharp at night.

Wind easterly over France and our southern districts, light and variable at our central stations, and westerly in Scotland and over Norway. Moderate breezes from the same quarter all day.

Sea generally moderate or slight.

Barometer falling everywhere. Depressions shown over Bay of Biscay and N. Norway, with high and uniform readings over England and N. Germany. Pressure giving way everywhere, but distribution little changed.



Wednesday, January 26.

Weather fine in the E. of Scotland and N. of Ireland, cloudy in most other places. Much fog over England. Rain commencing in Ireland later, little other change.

Temperature risen over France and our S. coasts, fallen elsewhere—quickly in the N.E. Readings ranging from 42° at Scilly to 7° at Shields. Decided rise of temperature taking place during day.

Wind south-easterly and easterly over France and our southern and western districts, southerly to south-westerly in the N. and over Norway. Blowing strongly in the S.W., and reaching a gale there later in the day.

Sea rough in S.W.

Barometer falling everywhere—very quickly in the S.W. Large depression advancing on our S.W. coasts during day, and barometer still falling fast.

Thursday, January 27.

Weather dull in nearly all parts of western Europe except N. Germany, rain reported from the S.E. of England, and fog in several places. Sky overcast all day with rain in places.

Temperature risen fast generally—change exceeding 10°. Readings ranging from 50° at Scilly to 20° at Nairn. Frost breaking up everywhere. Maxima between 35° and 45° generally.

Wind southerly on nearly all coasts, blowing freshly in the W. and N. South-easterly gales springing up in W. France, but moderate southerly winds prevailing on our coasts.

Sea rough in S.W. and W.

Barometer falling except in Sweden—quickly in W. and N. Large depression shown off W. Ireland, with high pressures in S.E. France and over the Baltic. Barometer falling all day, and depression advancing over Bay of Biscay.

Friday, January 28.

Weather overcast or very cloudy generally, with fog in very many places, rain in Ireland, and snow over the Skager Rack. Dull, misty, rainy weather prevailing all day.

Temperature changed rather irregularly, but risen in most places except the S. and S.W. of England. Readings ranging from 33° at York to 46° at Valentia. Maxima between 40° and 50° except in N.

Wind southerly on our western and northern coasts, but northerly breezes reported in the S.E. of England, westerly winds in N. France and southerly and south-easterly winds in the Netherlands. Strong to a gale in France but more moderate on our coasts. Southerly winds prevailing all day.

Sea rough in S.W.

Barometer falling except in the S.W. of France—quickly in S.E.—and depression shown over the Pas-de-Calais. Depression passing eastward later, and barometer recovering in E., but still decreasing W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, January 29.

Weather cloudy or dull, with, fog, rain, or snow in some places. Cloudy or showery weather prevailing all day.

Temperature risen generally and rather high; readings ranging from 50° at Scilly to 35° at Spurn Head. Maxima between 40° and 50° generally.

Wind south-westerly and southerly, moderate to fresh in force on our coasts and strong to a gale over Bay of Biscay. Southerly and south-westerly winds holding all day; rather fresh in S.E.

Sea rough to high in S.W.

Barometer falling in nearly all places. Large depression off our western coasts, with shallow secondary disturbance near Scilly. High pressures over Lapland and over S. France. Pressure increasing in E. and decreasing in W. later.

Sunday, January 30.

Weather fine in a few places, but generally dull, with thunder at Lorent; rain in S. Ireland. Snow over the Skager Rack, and fog at several stations. Dull and rather showery all day.

Temperature very little changed; readings ranging from 50° at Scilly to 34° at Leith. Little change during day. Maxima varying between 40° and 50°.

Wind south-westerly and southerly all over France and these Islands, but south-easterly and easterly over Scandinavia; moderate in force in the E., but fresh in the W. Wind backing to S. in the E. later, but veering to W. and N.W. in the S.W.

Sea rough in the S.W. and N.

Barometer rising generally. Pressure comparatively high in S. France and over Lapland, but large area of low readings shown off W. Ireland, and shallow depression over North Sea. Fresh depression in W. Ireland later.

Monday, January 31.

Weather fine over the Channel and greater part of England and Ireland, cloudy elsewhere. Sky clearing in N. later and weather fine generally, dry except S.W.

Temperature fallen except in N. Readings ranging from 47° at Scilly to 35° at Cambridge and Nairn. Slight rise occurring during day; maxima exceeding 50° in S.W. between 40° and 50° elsewhere.

Wind southerly and south-westerly over France and these Islands, easterly in Scandinavia; blowing rather freshly in the W., but moderate generally. Light south-westerly breezes prevailing all day.

Sea rough in S.W. and N.

Barometer rising everywhere—quickly in the W. Areas of high pressure reported from S. France and N. Sweden, with shallow depressions over the North Sea and W. Scotland. Pressure increasing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	43	15	40·4	31·3	35·9	−2·7	1	0·05	−0·35	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	30	50·9	40·9	45·9	+0·5	6	0·86	−0·19	*	*
	Jersey (Noirmont)	51	23	45·3	35·4	40·4	−2·6	5	1·40	+0·70	17	27

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	43	15	39·1	27·9	33·5	− 4·9	0	—	−0·45	*	*
	Aberdeen	43	9	38·4	25·4	31·9	− 5·5	4	0·35	−0·25	20	36
	Glenalmond	40	13	36·4	25·7	31·1	− 6·9	3	0·43	?	12	21
	Leith	42	11	37·4	23·9	30·7	− 7·5	3	0·13	−0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	41	10	35·7	25·6	30·7	− 7·8	3	0·11	?	*	*
	Shields	45	6	37·7	23·1	30·4	− 7·4	2	0·05	−0·35	*	*
	Durham	44	2	33·5	22·7	28·1	−10·0	2	0·03	−0·37	8	14
	York	46	13	35·4	25·6	30·5	− 7·8	5	0·24	−0·16	3	5
	Spurn Head	47	13	36·9	26·0	31·5	− 6·5	4	0·05	?	*	*
	Kelstern (Lincolnsh.) ℳ	44	12	35·1	26·3	30·7	− 7·3	5	0·21	−0·18	10	17
3. ENGLAND, E.	Hillington ℳ	47	1	38·0	25·7	31·9	− 6·6	6	0·52	+0·28	12	20
	Yarmouth	46	18	39·6	29·3	34·5	− 3·5	5	0·42	−0·16	*	*
	Geldeston	49	4	39·8	26·5	33·2	− 5·5	5	0·47	+0·07	14	23
	Cambridge	49	13	40·1	25·7	32·9	− 6·1	4	0·37	+0·04	9	15
	Rothamsted	48	15	39·3	28·7	34·0	− 5·5	5	0·63	0·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	14	36·1	28·1	32·1	− 6·6	4	0·20	−0·20	*	*
	Nottingham	46	10	38·0	24·9	31·5	− 7·4	5	0·28	−0·12	*	*
	Loughborough	49	10	38·3	25·6	32·0	− 6·9	5	0·19	−0·33	*	*
	Leicester	47	11	37·7	27·0	32·4	− 6·6	2	0·21	−0·26	5	8
	Birmingham (Oscott)	48	8	36·0	26·0	31·0	− 8·5	5	0·29	−0·26	*	*
	Shrewsbury ℳ	46	7	35·6	24·9	30·3	−10·0	5	0·22	−0·24	*	*
	Churchstoke ℳ	49	1	38·0	24·8	31·4	− 9·6	2	0·14	?	13	22
	Hereford ℳ	49	13	37·7	25·0	31·4	− 9·1	6	0·44	−0·26	*	*
	Cirencester	45	15	35·9	26·4	31·2	− 8·8	5	?0·37	?−0·48	8	13
	Oxford	51	16	40·9	28·3	34·6	− 4·9	6	0·59	+0·06	7	11
5. ENGLAND, S.	London†	52	17	43·3	30·3	36·8	− 2·4	6	0·60	+0·09	6	10
	Marlborough ℳ	49	17	39·0	30·0	34·5	− 5·8	6	0·89	+0·10	*	*
	Strathfield Turgiss ℳ	49	13	41·1	29·9	35·5	− 4·7	6	0·52	−0·18	*	*
	Dover	46	23	41·3	32·4	36·9	− 2·4	5	0·89	+0·23	*	*
	Hastings (St. Leonard's)	47	21	41·8	34·1	38·0	− 1·2	5	0·73	+0·08	*	*
	Southampton	51	16	41·8	32·0	36·9	− 4·0	5	0·98	?	10	16
	Hurst Castle	49	19	43·4	31·0	37·2	− 3·7	5	0·86	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	23	42·4	31·0	36·7	− 2·3	5	0·49	?	*	*
	Glasgow	43	18	37·5	28·4	33·0	− 5·6	5	0·19	−1·06	2	4
	Ardrossan	44	24	39·9	29·7	34·8	− 3·9	5	0·29	−0·80	*	*
	Silloth (Cumberland)	47	4	37·1	23·3	30·2	− 8·8	3	0·28	−0·60	9	16
	Douglas (Isle of Man)	48	24	39·9	32·2	36·1	− 4·9	6	0·79	−0·39	6	10
7. ENGLAND, N.W.	Barrow-in-Furness	47	15	39·3	25·6	32·5	− 7·5	? 6	?0·42	?	*	*
	Stonyhurst	45	10	37·5	26·6	32·1	− 6·9	5	0·28	−0·72	9	15
	Blackpool ℳ	44	10	39·0	25·5	32·3	− 8·0	4	0·25	−0·45	*	*
	Manchester	46	10	37·7	27·4	32·6	− 5·9	3	0·37	−0·27	*	*
	Liverpool Obsr (Bidston)	46	9	37·3	25·9	31·6	− 8·4	4	0·29	−0·24	*	*
	Llandudno ℳ	48	15	43·7	31·9	37·8	− 3·5	4	0·24	−0·51	22	37
	Holyhead	49	26	43·9	34·6	39·3	− 2·5	5	0·24	−0·56	*	*
8. ENGLAND, S.W.	Pembroke	48	21	43·9	34·1	39·0	− 3·3	6	0·73	−0·30	19	31
	Arlington (N. Devon)	49	11	42·7	28·3	35·5	− 6·5	6	1·51	?	*	*
	Falmouth	51	26	47·4	38·6	43·0	− 1·0	6	1·46	+0·54	15	24
	Plymouth	51	22	46·7	33·3	40·0	− 2·5	5	0·85	−0·24	*	*
	Prawle Point	50	22	45·9	34·9	40·4	− 2·7	5	0·80	?	*	*
9. IRELAND, N.	Londonderry	47	12	40·4	27·8	34·1	− 6·2	5	0·22	−0·68	*	*
	Mullaghmore	48	25	45·0	33·9	39·5	− 1·4	4	0·25	?	*	*
	Markree Castle	47	4	41·8	25·7	33·8	− 7·2	4	0·24	−0·51	12	20
	Brookeborough	46	10	41·6	29·0	35·3	− 4·5	4	0·33	?	*	*
	Armagh	46	15	40·8	30·6	35·7	− 4·4	6	0·15	−0·55	15	25
	Donaghadee	47	20	43·7	33·3	38·5	− 2·1	5	0·55	?	*	*
10. IRELAND, S.	Dublin	47	15	40·9	29·9	35·4	− 6·1	3	0·12	−0·44	22	37
	Parsonstown	48	15	43·7	29·4	36·6	− 3·9	5	0·23	−0·48	21	35
	Waterford										*	*
	Roche's Point	48	31	45·7	37·9	41·8	− 1·1	5	1·16	−0·19	*	*
	Valentia	53	30	49·6	37·9	43·8	+ 0·6	6	1·46	+0·45	24	39
	Foynes	52	14	37·0	26·6	31·8	− 9·6	3	0·09	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Erratum.—The "Maximum Temperature" at Hastings for the week ending Jan. 24th should be 41°, not 36°.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 5.] WEEK ENDING MONDAY, FEBRUARY 7, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plym[illegible], Crawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Br[illegible]oorough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	20	40	30	35	4 below.	5	15	8 more.	15	25
	2. ENGLAND, N.E.	50	24	43	32	38	1 below.	6	8	4 more.	10	16
	3. ENGLAND, E.	54	24	44	34	39	0(average).	6	9	4 more.	7	11
	4. MID. COUNTIES	52	22	45	34	40	1 below.	6	14	7 more.	11	18
	5. ENGLAND, S.	53	23	46	37	42	1 above.	5	9	2 more.	10	15
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	21	43	33	38	2 below.	6	21	12 more.	10	16
	7. ENGLAND, N.W.	54	25	45	35	40	1 below.	7	16	9 more.	13	20
	8. ENGLAND, S.W.	53	30	48	39	44	1 above.	6	18	9 more.	17	26
	9. IRELAND, N.	52	23	46	34	40	1 below.	7	17	9 more.	11	17
	10. IRELAND, S.	55	25	49	37	43	1 above.	6	16	8 more.	16	26

General Remarks.

Weather has been dull in all parts of the country with much rain, sleet, or snow. At the close of the period a severe storm of snow and rain was prevailing accompanied by heavy south-westerly gales, lightning in several places and thunder at Dublin and Hastings.

Temperature has been much higher than of late but was still slightly below the mean except in the eastern, southern, and south-western districts of England and in the S. of Ireland. The minimum readings occurred generally on the 7th, and ranged from 20° or 21° in Scotland to 23° or 24° in nearly all other parts of the Kingdom.

Rainfall was more than the mean in all districts, the excess being least in "England, S." and greatest in "Scotland, W."

Bright sunshine was very little prevalent, the percentage of possible duration ranging from 26 in "England, S.W." and "Ireland, S.," to 11 in "England, E."

Depressions observed.—The principal depressions observed were as follow:

No. 1. Appeared off the W. of Ireland early on the 2nd, and gradually spread over the Kingdom, causing southerly (S.E. to S.W.) winds. Its centre reached Scotland on the 4th, whence it travelled south-eastwards and strong northerly to north-easterly winds set in for a time in its rear, blowing a gale in the N.W. and N.E.

No. 2. Was very deep; it advanced very rapidly to our western coasts near midnight on the 6th, then moved slowly towards Scotland. It brought with it very severe southerly to westerly gales, much rain and snow, followed by lightning, and in some places thunder.

Q 5013. 100.—2/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 7, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 1.

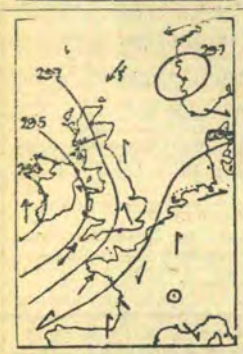
Weather cloudy or dull over central and southern England and the greater part of the Continent, fine on our W., N., and E. coasts. Very foggy over central England. Little change later.

Temperature fallen several degrees generally; readings ranging from 46° at Scilly to 30° at Nottingham and Aberdeen. Maxima between 40° and 50°, and slight frost at inland stations at night.

Wind south-westerly and westerly on most of our coasts and very variable over France. Light in force generally. Backing to E. at Valentia later, and to S.W. or S. elsewhere. Blowing strongly in S.W.

Sea slight or smooth except off Ushant.

Barometer falling in the E. of France, rising briskly elsewhere. Pressure highest over Spain, lowest over the N. of Scotland and S. of Scandinavia. Depression advancing to our S.W. coasts later and barometer falling briskly there.



Wednesday, February 2.

Weather cloudy, dull, and rainy except at Aberdeen and in E. France. Dull and showery all day.

Temperature fallen to 23° at Aberdeen, risen elsewhere, and ranging from 51° in the S.W. to 30° at York. Further increase occurring during day. Maxima generally between 45° and 55°.

Wind south-westerly and southerly over France and the greater part of these Islands, but south-easterly and easterly in the N. Blowing strongly at all the western stations. No change in direction later, but wind falling lighter.

Sea rough W. and S.W.

Barometer rising in the countries to the eastward of the North Sea and in N.E. Scotland, falling elsewhere—quickly in Ireland. Large depression off our W. coasts. Slight recovery in S.W. and W. later.

Thursday, February 3.

Weather dull in nearly all parts of western Europe, rain falling in N.W. and N.E., fog prevailing in many places. Cloudy rainy weather prevailing all day, particularly in Scotland and N. England.

Temperature fallen N. Scotland,—risen elsewhere; readings ranging from 51° at Scilly to 35° in N. Scotland. Maxima between 45° and 55° generally, and minima nowhere low.

Wind southerly over France, England, and Ireland, and south-easterly and easterly in Scotland; strong except in the E., and blowing a gale at Wick. No change later.

Sea rough in S.W. and N.E.

Barometer rising in Scandinavia, falling generally. Large depression off the W. of Ireland, with high barometers over Lapland and the S.E. of France. Barometer falling all day, but little change in general distribution.

Friday, February 4.

Weather very unsettled, sky overcast in nearly all places except the S.E.; rain falling in W. and S.W., and snow in S. Norway. Dull, rainy, and unsettled all day, but amounts of rainfall not large.

Temperature risen in N. England and S. Scotland, fallen generally; readings uniform, ranging from 50° at Scilly to 34° at Nairn. Maxima between 45° and 55°, minima nowhere low.

Wind westerly in the S.W., southerly in the E., and easterly in the North; blowing strongly at Scilly, and a gale at Wick, but moderately generally. Wind veering on most coasts later, and reaching a gale at Scilly.

Sea rough in the S.W., and high in the N.

Barometer recovering in S.W., still falling elsewhere, the change in N. Scotland amounting to half an inch. Large depression in N., smaller disturbance over Wales. Pressure increasing W. and S.W. later, decreasing E.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 5.

Weather showing little improvement, still dull, showery and unsettled generally. Fine in S. Ireland later, still showery and squally elsewhere, snow falling in E. Scotland.

Temperature fallen several degrees; readings ranging from 49° at Prawle Point to 34° at Wick. Further decrease occurring during day, and maxima between 35° and 45° generally.

Wind easterly in Norway, northerly over Scotland and Ireland, westerly and north-westerly over England and France, and south-westerly on the eastern shores of the North Sea. Light or moderate in the E. but blowing strongly or with the force of a gale in the N.E., W., and S.W. Northerly winds becoming general later, and blowing strongly.

Sea rough in the S.W., N.W., and N.

Barometer rising in N. and W., falling in E., depression now shown over North Sea. Pressure increasing everywhere later, and depression passing south-eastward.

Sunday, February 6.

Weather fine and bright in nearly all parts of the country, but cloudy in the S.W. and on the Continent generally. Sky overcast in the extreme W. and S.W. later, but remaining clear elsewhere.

Temperature fallen in most places, and slight frost reported from some stations; readings ranging from 42° at Scilly to 28° at Parsonstown and 30° at Nairn. Maxima in most districts between 35° and 45°, but higher in S.W.

Wind northerly over nearly the whole of these Islands and France, but easterly in S. Ireland; moderate in force. South-easterly breezes appearing on all our western coasts later, but northerly wind holding in N. and E.

Sea very rough in the N.E. and rough in the S.W.

Barometer rising briskly except in S. of Ireland, and area of high pressure forming in S.W. Depression passing away over Baltic. Pressure giving way in W. later, and new depression approaching Ireland.

Monday, February 7.

Weather fine in some parts of France and N. Germany, dull, showery, and unsettled on our coasts. Snow falling in N.W. and N.E. Snow or rain falling all day in most parts of the Kingdom; weather very rough.

Temperature risen very fast W., but change not affecting eastern districts; readings ranging from 52° at Valentia to 28° at Leith. Temperature low all day in E. and N. Maxima between 45° and 55° in the S. and S.W., and about 40° or below in the N.

Wind southerly all over the country, blowing lightly in the S.E., strong to a gale elsewhere. Very severe gale experienced all day from southward in E., and from S.W. in W.

Sea rough S.W. and W.

Barometer falling very fast in W., and briskly in most districts, but rising in N. Germany, the Netherlands, and N.E. of France. Anticyclone over France, and very deep and important depression off our W. coasts. Rapid decrease in progress during day, and depression advancing over us.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	42	27	38·6	32·0	35·3	−3·7	4	2·04	+1·63	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	40	51·0	44·4	47·7	+2·2	6	1·87	+0·94	*	*
	Jersey (Noirmont)	52	34	48·9	40·6	44·8	+1·8	6	1·11	+0·49	25	38

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	? 42	? 25	?37·6	?30·7	?34·2	?— 4·7	5	1·23	+0·83	*	*
	Aberdeen	44	21	40·0	27·9	34·0	— 4·0	5	1·50	+0·90	14	23
	Glenalmond	45	20	38·5	29·1	33·8	— 4·9	4	2·40	?	16	27
	Leith	50	25	43·6	32·3	38·0	— 0·7	5	1·01	+0·61	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	28	39·9	31·9	35·9	— 3·0	5	1·24	?	*	*
	Shields	50	25	42·3	33·0	37·7	— 0·5	6	0·71	+0·31	*	*
	Durham	49	24	43·2	31·9	37·6	— 1·1	5	0·57	+0·17	11	18
	York	50	26	44·1	32·1	38·1	— 0·8	6	0·81	+0·41	10	16
	Spurn Head	46	28	42·6	32·9	37·8	— 0·8	6	0·65	?	*	*
	Kelstern (Lincolnsh.) ⊞	50	25	43·4	32·0	37·7	— 0·8	6	1·04	+0·64	8	13
3. ENGLAND, E.	Hillington ⊞	50	25	43·6	34·0	38·8	— 0·3	7	0·76	+0·26	5	8
	Yarmouth	45	27	43·1	33·4	38·3	— 0·4	6	0·70	+0·14	*	*
	Geldeston	49	27	43·6	33 8	38·7	— 0·8	7	0·80	+0·40	7	11
	Cambridge	53	26	47·3	33·9	40·6	+ 1·0	4	0·56	+0·26	9	14
	Rothamsted	54	24	44·4	34·5	39·5	— 0·5	6	1·70	+1·14	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	26	47·1	33·9	40·5	+ 1·3	5	0·74	+0·34	*	*
	Nottingham	52	24	44·4	32·4	38·4	— 1·2	6	1·10	+0·70	*	*
	Loughborough	52	26	45·4	34·1	39·8	0·0	6	1·46	+0·96	*	*
	Leicester	51	25	44·4	34·7	39·6	— 0·4	6	1·42	+0·97	9	14
	Birmingham (Oscott)										*	*
	Cheadle ‡ ⊞	48	25	43·4	33·0	38·2	— 3·3	7	1·92	?	*	*
	Churchstoke ⊞	51	24	46·6	33·2	39·9	— 1·6	5	1·88	?	16	25
	Hereford ⊞	51	26	45·9	33·5	39·7	— 1·4	6	1·23	+0·61	*	*
	Cirencester	?49	22	?43·8	33 2	38·5	?— 2 3	5	1·52	+0·76	10	16
	Oxford	52	27	46·3	36·4	41·4	+ 1·4	6	1·00	+0·51	10	16
5. ENGLAND, S.	London†	53	26	46·9	36·7	41·8	+ 1·6	6	0·57	+0·11	7	11
	Marlborough ⊞	50	25	45·9	35·5	40·7	— 0·2	5	1·48	+0·78	*	*
	Strathfield Turgiss ⊞	53	23	46·4	35·3	40 9	+ 0·1	5	1·06	+0·45	*	*
	Dover	47	30	44·9	37·6	41·3	+ 1·2	5	0·39	−0·17	*	*
	Hastings (St. Leonard's)	50	30·	45·1	36·7	40·9	+ 0·7	5	0·50	−0·06	*	*
	Southampton	52	27	47·2	36·5	41·9	+ 0·7	5	1·28	?	12	19
	Hurst Castle	49	28	45·9	35·9	41·4	+ 0·4	5	1·04	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	46	21	43·2	29·2	36·2	— 3·3	4	1·70	?	*	*
	Glasgow	47	28	41·3	33·1	37·2	— 2·1	6	1·71	+0·53	7	13
	Ardrossan	45	27	42·7	33·1	37·9	— 1·3	5	2 82	+1·83	*	*
	Silloth (Cumberland)	51	25	43·3	32·9	38·1	— 1·4	5	1·60	+0·80	8	13
	Douglas (Isle of Man)	48	26	44·9	34·6	39·8	— 0·3	7	2·73	+1·67	14	23
7. ENGLAND, N.W.	Barrow-in-Furness	48	28	45·1	34·1	39·6	— 1·2	7	1·44	?	*	*
	Stonyhurst	50	25	42·4	33·1	37·8	— 2·1	7	2·00	+1·05	8	13
	Blackpool ⊞	49	26	43·5	34·1	38·8	— 2·0	7	1·55	+0·92	*	*
	Manchester	50	26	43·3	33·5	38·4	— 1·1	4	1·67	+1·07	*	*
	Liverpool Obsy (Bidston)	51	29	45·1	36·9	41·0	+ 0·3	7	1·27	+0·80	*	*
	Llandudno ⊞	52	29	47·8	37·0	42·4	+ 0·5	7	1·33	+0·65	17	27
	Holyhead	54	34	45·9	38·3	42·1	+ 0·1	7	1 62	+0·92	*	*
8. ENGLAND, S.W.	Pembroke	48	34	45·6	38·7	42·2	— 0·4	6	1·75	+0·85	11	17
	Arlington (N. Devon)	52	30	46·7	37·3	42·0	— 0·6	7	2·28	?	*	*
	Falmouth	53	37	48·9	42·9	45·9	+ 1·3	7	2·15	+1·25	22	34
	Plymouth	53	34	49·6	39·0	44·3	+ 1·3	6	1·62	+0·62	*	*
	Prawle Point	51	31	49·4	39·1	44·3	+ 1·0	6	0·98	?	*	*
9. IRELAND, N.	Londonderry	51	28	45·3	33·7	39·5	— 1·3	7	2·08	+1·26	*	*
	Mullaghmore	52	25	48·3	34·9	41·6	+ 0·6	7	1·38	?	*	*
	Markree Castle	51	23	45·4	32·0	38·7	— 2·8	7	1·43	+0·68	10	16
	Brookeborough	50	24	44·5	32·3	38·4	— 1·9	5	2·24	?	*	*
	Armagh	50	27	44·7	33·4	39·1	— 1·7	7	1·34	+0 69	11	18
	Donaghadee	50	31	45·3	35·4	40·4	— 0·7	6	1·77	?	*	*
10. IRELAND, S.	Dublin	54	29	47·5	36·2	41·9	0·0	6	0·86	+0·35	18	29
	Parsonstown	55	25	49·1	32·6	40·9	— 0·3	6	1·37	+0·85	13	21
	Waterford										*	*
	Roche's Point	51	33	49·0	38·1	43·6	+ 0·6	6	2·28	+1·07	*	*
	Valentia	55	34	51·9	39·3	45·6	+ 2·1	7	2·04	+0·71	17	27
	Foynes										*	*

Stations marked ⊞ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ Cheadle has now taken the place of Shrewsbury, which station has ceased reporting.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 6.] WEEK ENDING MONDAY, FEBRUARY 14, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	14	38	29	33	6 below.	5	13	9 more.	12	18
	2. ENGLAND, N.E.	44	26	39	31	35	4 below.	6	15	12 more.	7	11
	3. ENGLAND, E.	50	25	42	33	37	3 below.	5	13	8 more.	10	15
	4. MID. COUNTIES	51	26	43	34	38	3 below.	6	18	11 more.	13	19
	5. ENGLAND, S.	51	25	45	36	40	1 below.	4	13	6 more.	14	19
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	48	21	41	31	36	5 below.	6	23	15 more.	15	23
	7. ENGLAND, N.W.	50	27	42	34	38	3 below.	5	22	16 more.	11	17
	8. ENGLAND, S.W.	52	30	47	39	43	1 below.	6	22	14 more.	15	23
	9. IRELAND, N.	50	23	45	35	40	1 below.	6	14	5 more.	12	18
	10. IRELAND, S.	55	27	50	39	44	2 above.	6	18	11 more.	16	24

General Remarks.

Weather has been very dull and unsettled with a great deal of rain, and in some places sleet or snow.

Temperature was slightly above the mean in "Ireland, S.," but below it in all other districts. The greatest deficit was in Scotland where the average for the week was 5° or 6° below the mean for the time of year. The lowest reading registered was 14° and occurred at Glenalmond on the 12th, while in other parts of Scotland the thermometer fell to 21° or 22°. Over the greater part of England and Ireland the minima varied from 23° to 27°. The maxima were nowhere high, not exceeding 52° in any district excepting "Ireland, S."

Rainfall was more than the mean everywhere; in most places the excess was large, and in the W., as well as in "England, N.E." and the "Midland Counties," very large.

Bright sunshine was very scarce, the percentages varying from 24 in "Ireland, S." to 11 in "England, N.E."

Depressions observed.—No. 1 was that referred to in our last issue as advancing towards Scotland, where it was shown at 8 A.M. on the 8th and afterwards travelled to the southern part of the Baltic. It caused heavy westerly gales on the 8th at most stations, and north-easterly gales in Scotland.

No. 2 after advancing from the south-westward, and being shown at 6 P.M. on the 10th off the N. of Ireland, moved in a south-easterly direction and disappeared from our neighbourhood. It was very deep, causing very strong gales from the westward in the S. and from the eastward in the N., and subsequently from N. and N.W.

No. 3 reached our coasts from the Atlantic and at the close of the period was over our western districts causing strong southerly winds or gales in all parts of the Kingdom.

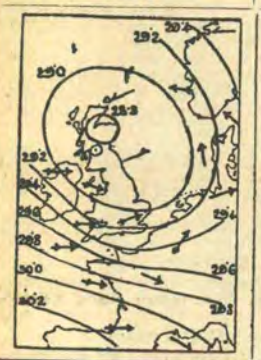
O 5117. 100.—2/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 14, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 8.

Weather fine in the N.E., dull, showery, and very unsettled elsewhere. Exceedingly rough unsettled weather prevailing all day, with rain at nearly all stations.

Temperature risen fast over Great Britain, beginning to fall in Ireland. Readings ranging from 51° at Scilly to 32° at Leith. Maxima about 40° in N. and 50° in S.

Wind light and variable in N., but westerly over Ireland, England, and France, south-westerly in the Netherlands, and south-easterly in Scandinavia. Blowing a severe gale all over our western and southern districts, and France, veering somewhat later, but still blowing a gale.

Sea very rough in the W., S., and N.E.

Barometer rising in W. and S.W., falling quickly elsewhere, change exceeding an inch in England E. Deep depression over Scotland, and area of high pressure over Spain. Disturbance passing south-eastward and pressure increasing.

Wednesday, February 9.

Weather still very unsettled, but quieter than on 8th; sky cloudy or overcast in nearly all places, with rain showers in W. and S., and snow at Aberdeen. Very unsettled and showery generally, but temporarily fine in S.E. in afternoon.

Temperature fallen everywhere, and rather low in N.E.; readings ranging from 46° at Scilly to 34° at Aberdeen, Ardrossan, and Donaghadee. Rising briskly in S.W. later. Maxima below 40° in N., between 45° and 53° elsewhere.

Wind lighter in force generally,—blowing from S.E. at Valentia, from S.W. at the other Irish stations, and from W. and N.W. over England and France. South-westerly to southerly winds general later, blowing a gale in S.W.

Sea rough in S.W.

Barometer rising rapidly in most places, and depression noticed above disappearing over the Baltic. Fresh depression appearing on the Irish coasts later, and barometer falling fast.

Thursday, February 10.

Weather still cloudy, dull, and very unsettled; rain falling in several places and snow at Aberdeen and Wick. Moderately fine in the S.E. later, but very squally generally, and snow falling steadily in N.

Temperature risen a little, except in Scotland; readings ranging from 50° in London to 33° at Nairn. Thermometer falling during day. Maxima below 40° in N., between 40° and 50° elsewhere.

Wind westerly all over Ireland, England, and France, and easterly over the North Sea and Scotland. Blowing a gale in nearly all places, except the E. of England. Little change later, gales holding all day.

Sea very rough nearly all round our coasts.

Barometer falling fast over the whole of western Europe. Very deep depression off our N.W. coasts, and smaller disturbances in different parts of our area. Pressure giving way all day, and barometer as low as 28·48 ins. at Mullaghmore.

Friday, February 11.

Weather still exceedingly unsettled, fair in N.E. England and S.W. Ireland, dull, squally, and showery elsewhere. Slight snow showers occurring during day, but weather much brighter in afternoon.

Temperature fallen fast, ranging from 45° at Scilly to 32° in S. Scotland. Falling in S.E. during day, and maxima ranging from about 45° in W. to 35° in E.

Wind north-easterly to northerly on most of our coasts, north-westerly to westerly in the S.W. and over France. Blowing strongly or with the force of a gale generally. Strong northerly winds or gales all day.

Sea very rough all round our coasts.

Barometer falling over France, rising in these Islands—very rapidly in N.W. Depression passed south-eastward, and shown over the S.E. of England. Mercury rising fast all day, and disturbance disappearing.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 12.

Weather fine and bright in most parts of western Europe, but dull and snowy in the N.E. of France and over the Baltic, and wet at Valentia. Dull weather spreading from the westward later, but fine all day in E.

Temperature fallen in all places, sharp frost prevailing in some districts; readings ranging from 44° at Valentia to 30° at Hurst Castle, and 23° at Aberdeen. Maxima between 48° and 50° generally, but below 40° in the N.

Wind southerly in Ireland, light and variable in the W. of England and northerly in the E. of that country, over the North Sea, and France. Moderate in force. Southerly wind from W. increasing, spreading, and blowing a gale in Ireland.

Sea rough in the S.W. and N.E.

Barometer beginning to fall at Valentia, but rising briskly elsewhere. Area of high pressure lying over us with low readings to the westward of these islands and over the Baltic. Brisk decrease in Ireland later.

Sunday, February 13.

Weather fine in the S.E. of England and on the eastern shores of the North Sea, dull and unsettled elsewhere; snow falling "Scotland, E." and rain in "England. S.W." Slight snow and rain during day very generally.

Temperature risen several degrees except in E.; readings ranging from 50° at Scilly to 30° at Cambridge. Maxima below 40° in E. and N., but rising to 50° in the S.W.

Wind shifted to northward in W. Ireland, but between S.W. and S.E. elsewhere; blowing a gale in the W. of France and over the Irish Sea. Southerly winds holding all day, and blowing strongly in W.

Sea rough in the S.W. and N.E.

Barometer rising in the S.E., over the greater part of France, and the countries to the eastward of the North Sea, falling elsewhere. Depressions lying over our western districts. Pressure giving way generally later.

Monday, February 14.

Weather very unsettled, overcast at nearly all stations with rain in many districts; snow falling at York. Dull wet weather prevailing all day, and heavy rain falling all over the country.

Temperature risen a little in most places; readings ranging from 51° at Scilly to 33° at York. Thermometer low all day, maxima below 40° in E. and N., but rising to about 50° in S.W.

Wind south-easterly and southerly all over the country; blowing lightly in Ireland, but strongly over nearly the whole of France and Great Britain, and reaching a gale in N. Scotland. Gale holding in N. all day.

Sea rough in the S.W. and very rough in N.E.

Barometer rising in Scandinavia, falling elsewhere; anticyclone shown over Sweden, with large depression over our western coasts. Mercury rising in Ireland and Scotland later, falling over England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	39	25	37·9	30·9	34·4	−5·0	6	0·42	0·00	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	52	38	50·1	42·7	46·4	+0·8	7	1·76	+0·96	•	•
	Jersey (Noirmont)	50	34	46·4	38·6	42·5	−0·6	6	1·16	+0·57	14	20

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	39	25	37·0	29·9	33·5	− 5·6	5	0·42	+0·07	*	*
	Aberdeen	41	22	37·0	29·0	33·0	− 5·9	6	2·77	+2·21	11	17
	Glenalmond	43	14	35·7	25·8	30·8	− 8·6	3	1·15	?	13	20
	Leith	48	25	42·1	29·1	35·6	− 3·7	4	0·86	+0·46	*	*
2. ENGLAND, N.E.	Alnwick Castle	41	28	37·4	31·7	34·6	− 4·7	6	1·63	?	*	*
	Shields	43	26	38·3	31·4	34·9	− 4 1	6	1·33	+0·93	*	*
	Durham	42	27	37·9	30·5	34·2	− 4·9	6	1·31	+0·86	7	12
	York	43	27	40·1	31·0	35·6	− 3·9	5	2·23	+1·83	?	?
	Spurn Head	44	30	40·0	32·4	36·2	− 2·9	6	0·95	?	*	*
	Kelstern (Lincolnsh.) ℳ	43	28	38·5	31·2	34·9	− 4·5	5	1·69	+1·29	7	10
3. ENGLAND, E.	Hillington ℳ	49	27	41·2	32·8	37·0	− 2·8	6	1·55	+1·01	6	9
	Yarmouth	48	30	41·1	32·7	36·9	− 2·6	5	1·34	+0·79	*	*
	Geldeston	49	25	43·0	32 5	37·8	− 1·7	6	1·24	+0·83	14	21
	Cambridge	50	28	43·9	31·4	37·7	− 2·6	4	1·18	+0·87	10	15
	Rothamsted	49	25	42·1	33·4	37·8	− 2·7	5	1·05	+0·55	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	46	29	41·7	32·3	37·0	− 2·9	6	1·57	+1·18	*	*
	Nottingham	48	28	42·6	32·1	37·4	− 2·8	5	2·47	+2·05	*	*
	Loughborough	50	28	43·2	32·8	38·0	− 2·3	5	1·41	+0·95	*	*
	Leicester	49	30	42·6	34·5	38·6	− 2·1	5	1·42	+1·00	9	13
	Birmingham (Oscott)	49	28	41·7	33·5	37·6	− 3·3	5	0·99	+0·42	*	*
	Cheadle ℳ	49	26	40·6	31·7	36·2	− 5·2	5	2·77	?	*	*
	Churchstoke ℳ	51	27	43·6	34·0	38·8	− 3·2	6	1·95	?	14	21
	Hereford ℳ	51	28	45·3	34·4	39·9	− 1·9	6	1·18	+0·61	*	*
	Cirencester	49	28	42·9	34·3	38·6	− 2·8	6	2·27	+1·59	12	18
	Oxford	50	31	44·7	35·9	40·3	− 0·9	6	1·62	+1·17	17	25
5. ENGLAND, S.	London†	50	27	44·7	35·0	39·9	− 1·1	5	0·83	+0·42	13	19
	Marlborough ℳ	49	28	43·8	33·7	38·7	− 2·8	5	1·84	+1·22	*	*
	Strathfield Turgiss ℳ	49	25	44·4	35·1	39·8	− 1·4	3	1·12	+0·61	*	*
	Dover	50	29	43·6	36·1	39·9	− 1·0	5	0·79	+0·30	*	*
	Hastings (St. Leonard's)	50	31	44·0	36·2	40·1	− 1·1	4	1·02	+0·55	*	*
	Southampton	51	28	46·2	36·2	41·2	− 0·6	4	1·79	?	15	19
	Hurst Castle	49	30	44·9	37·1	41·0	− 0·5	4	1·53	?	*	*
6. SCOTLAND, W.	Landale (Loch Sunart)	45	26	38·8	28·5	33·7	− 6·1	5	1·97	?	*	*
	Glasgow	43	22	39·0	28·1	33·6	− 6·1	6	2·51	+1·44	15	23
	Ardrossan	45	21	41·1	30·4	35·8	− 3·9	6	2·55	+1·67	*	*
	Silloth (Cumberland)	44	24	40·7	31·1	35·9	− 4·3	5	1·26	+0·56	17	26
	Douglas (Isle of Man)	48	24	43·7	35·1	39·4	− 2·2	6	3·40	+2·45	14	21
7. ENGLAND, N.W.	Barrow-in-Furness	44	29	41·6	32·0	36·8	− 4·2	5	2·06	?	*	*
	Stonyhurst	45	27	40·2	33·5	36·9	− 3·4	5	3·64	+2·73	13	20
	Blackpool ℳ	45	28	41·4	32·5	37·0	− 4·2	5	2·11	+1·52	*	*
	Manchester	47	27	41·4	32·2	36·8	− 3·5	5	3·46	+2·89	*	*
	Liverpool Obsy (Bidston)	49	31	42·4	33·9	38·2	− 3·4	5	1·79	+1·39	*	*
	Llandudno ℳ	50	34	44·8	37·6	41·2	− 1·0	5	1·37	+0·77	9	13
	Holyhead	47	33	44·1	37·1	40·6	− 1·9	7	1·08	+0·47	*	*
8. ENGLAND, S.W.	Pembroke	48	30	45·4	38·9	42·2	− 1·0	6	1·78	+0·98	14	21
	Arlington (N. Devon)	50	30	45·3	36·9	41·1	− 1·8	6	2·95	?	*	*
	Falmouth	51	36	48·6	42·4	45·5	+ 0·6	7	3·08	+2·19	16	24
	Plymouth	52	31	48·4	39·4	43·9	+ 0·4	6	1·98	+1·07	*	*
	Prawle Point	49	32	46·7	38·0	42·4	− 1·1	4	1·27	?	*	*
9. IRELAND, N.	Londonderry	48	28	44·6	35·1	39·9	− 1·1	6	1·72	+0·97	*	*
	Mullaghmore	49	34	46·0	37·9	42·0	+ 0·5	6	1·02	?	*	*
	Markree Castle	50	23	46·7	35·0	40·9	− 0·9	6	0·71	+0·01	10	15
	Brookeborough	48	25	45·5	35·5	40·5	− 0·5	6	2·25	?	*	*
	Armagh	48	30	44·6	36·5	40·6	− 0·6	6	1·17	+0·56	14	21
	Donaghadee	47	28	44·0	32·0	38·0	− 3·5	6	1·88	?	*	*
10. IRELAND, S.	Dublin	53	29	48·1	38·1	43·1	+ 1·0	6	1·56	+1·10	15	22
	Parsonstown	52	27	47·7	35·9	41·8	− 0·1	5	1·38	+0·85	17	25
	Waterford	53	27	48·8	38·8	43·8	+ 1·2	6	1·80	+0·95	*	*
	Roche's Point	53	32	49·6	40·0	44·8	+ 1·8	6	1·83	+0·75	*	*
	Valentia	55	31	51·0	38·7	44·9	+ 1·0	7	2·08	+1·93	17	25
	Foynes	54	41	52·7	43·0	47·9	+ 5·4	7	1·79	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 7.] WEEK ENDING MONDAY, FEBRUARY 21, 1881. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	45	21	39	33	36	4 below.	2	1	3 less.	0	0
	2. ENGLAND, N.E.	45	26	38	33	36	4 below.	4	3	1 less.	1	2
	3. ENGLAND, E.	49	28	40	34	37	4 below.	4	4	1 less.	4	6
	4. MID. COUNTIES	52	27	42	36	39	3 below.	3	3	1 less.	5	7
	5. ENGLAND, S.	52	28	43	35	39	3 below.	3	3	2 less.	5	7
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	28	41	35	38	3 below.	1	less than ½	6 less.	5	8
	7. ENGLAND, N.W.	54	30	42	36	39	3 below.	1	less than ½	6 less.	9	13
	8. ENGLAND, S.W.	53	32	45	39	42	2 below.	2	1	7 less.	7	10
	9. IRELAND, N.	50	32	44	39	42	0 (average).	3	2	4 less.	1	1
	10. IRELAND, S.	53	34	46	41	44	1 above.	3	6	2 less.	2	3

General Remarks.

Weather has been exceedingly dull and gloomy with a great deal of mist or fog, and some showers of cold rain or snow.

Temperature was equal to the mean in "Ireland, N." and slightly above it in "Ireland, S.," but in all other districts readings were from 2° to 4° below the average for the season. The thermometer was generally lowest during the 20th and 21st when a few degrees of frost were registered in nearly all districts. At Glenalmond, however, a reading of 21° occurred on the 16th.

Rainfall was less than the mean everywhere, the fall being very slight in Scotland and the W. of England.

Bright sunshine was extremely scarce, hardly any being registered in Ireland, "England, N.E.," and none in "Scotland, E.," while the greatest percentage (in "England, N.W.") was only 13.

Depressions observed.—No important depressions have appeared over our Islands during this period; pressure was lowest to the westward during the first few days and highest over Scandinavia and Denmark, causing moderate southerly winds. From the 18th till the end of the period, however, the barometer was lowest over France and Spain, so that moderate or light easterly breezes prevailed over the whole of our Islands between those dates.

Q 5239. 100.—2/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 21, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 15.

Weather fine in W. France, dull and unsettled elsewhere, with rain over the greater part of England and fog over the Irish Sea. Dull, with misty rain till evening, when sky cleared in S.

Temperature fallen except over France and central England; readings ranging from 50° at Scilly to 34° at Nairn. Maxima below 40° in E. and N., between 40° and 50° in most other places.

Wind southerly and south-easterly on nearly all coasts, but northerly in the S. of Ireland. Blowing freshly in N. Scotland and over the Bay of Biscay. Very variable breezes prevailing later.

Sea rough in the S.W. and very rough in N.E.

Barometer rising over the whole of these Islands, but falling over most parts of the Continent. Readings high in Lapland and low over Spain. Very uniform over the United Kingdom. Pressure increasing slowly all day.

Wednesday, February 16.

Weather overcast or very cloudy all over the country, with fog at the majority of stations. Dull and foggy all day, with rain in N.W.

Temperature fallen a little in most places, but changes everywhere very slight; readings ranging from 48° at Scilly to 34° at Leith. Maxima between 40° and 50°, and night rather cold.

Wind easterly over France and our S. and S.W. coasts, light variable breezes prevailing elsewhere. Rather fresh southerly breezes reported in W. and N. later, but light easterly airs continuing elsewhere.

Sea rough S.W. and N.E.

Barometer rising over western Europe, but inclined to fall over Scandinavia. Readings high over Sweden, and low over Spain and our N.W. coasts. Rather brisk fall on our W. coasts later.

Thursday, February 17.

Weather dull, except over the Netherlands and the S.E. coast of England, with fog or misty rain in several parts of the country. Dull and misty or foggy weather prevailing, except in extreme E.

Temperature risen in nearly all places; readings ranging from 49° at Scilly to 32° at Cambridge. Thermometer rather low all day and following night.

Wind light from E. in the S. and S.E., moderate to fresh from S. in the W. and N. Little change in direction during day but wind freshening in N.

Sea rough at Valentia and in the N.E.

Barometer rising in all places; pressure still highest in Sweden and lowest off our W. coasts. Barometer changing very little later beyond further rise in Scandinavia.

Friday, February 18.

Weather very foggy and overcast, with rain in Ireland. Fog and gloom, with slight drizzling rain continuing all day.

Temperature fallen, except in the S.E.; readings ranging from 50° at Scilly to 35° at Nairn. Maxima between 40° and 50°, and slight frost experienced at Cambridge at night.

Wind variable and moderate or light, blowing from E. over the North Sea and the E. and S. of England, from S. in Scotland, and from N. in Ireland. Wind veering to S.E. in Ireland later, little other change.

Sea rough in S.W. and N.E.

Barometer falling in S.W. France, rising elsewhere. Readings as high as 30·6 ins. over Sweden, but decreasing to 29·8 ins. at Coruña. Increase of pressure taking place all day, except in S.W. France.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 19.

Weather still cloudy, dull and foggy in all places, and continuing so all day; rain falling in London at night.

Temperature again decreasing generally, and ranging from 47° in S.W. to 30° at Nairn. Thermometer low all day, maxima below 40° in E. and N., and slight frost again experienced at Cambridge at night.

Wind easterly in nearly all places, but still southerly in Scotland; blowing freshly in S.W. and N.E., but light generally. Veering to S.E. in W. Ireland later; otherwise unchanged.

Sea still rough in S.W. and N.E.

Barometer rising except over Bay of Biscay; readings as high as 30·86 ins. in Sweden, and decreasing to 29·81 ins. at Coruña. Scarcely any change later.

Sunday, February 20.

Weather dull and misty or foggy in nearly all places, with rain in the Shetlands. Dull all day with slight snow showers in the E. and sharp hail, rain, and snow in London all night.

Temperature scarcely changing, but inclined downward; readings ranging from 46° at Scilly to 31° at Nairn. Temperature low all day, maxima below 40° all over the E. and N.

Wind still southerly in Scotland, and easterly to north-easterly generally; blowing freshly in the S.W. and N.E. Backing somewhat during day.

Sea rough in N.E. and S.W.

Barometer rising all over western Europe, and readings ranging from 30·89 ins. in Lapland to 29·88 ins. at Coruña. Slight further increase reported from all stations in evening.

Monday, February 21.

Weather dull in all places except Norway; snow falling over the Midlands and in London, and fog prevailing in many places. Weather exceedingly dull all day, except in N. Scotland.

Temperature fallen; readings ranging from 44° at Scilly to 29° at Nairn. Thermometer falling fast in E., S., and N. later, and sharp frost prevailing in those districts at night.

Wind north-easterly and easterly on nearly all coasts, blowing freshly at a few stations. Wind backing towards N. in the S.E. at night.

Sea rough in the S.W. and N.E.

Barometer still rising, except in Sweden. Distribution unchanged, readings still highest over Sweden and lowest over N. Spain. Slight decrease reported in the E. in evening.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	41	32	39·9	35·0	37·5	−1·0	5	0·14	−0·44	*	*
	Stornoway											
	Wick	42	33	39·6	35·7	37·7	−1·5	0	—	−0·40	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	51	43	48·3	45·4	46·9	+0·9	2	0·08	−0·61	*	*
	Jersey (Noirmont)	50	39	47·0	41·0	44·0	+0·5	4	0·19	−0·35	17	24

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	25	40·0	31·6	35·8	− 3·7	0	—	−0·31	*	*
	Aberdeen	40	33	38·1	34·6	36·4	− 2·8	5	0·13	−0·29	0	0
	Glenalmond	45	21	36·1	30·6	33·4	− 6·4	1	0·05	?	0	0
	Leith	44	30	40·1	33·1	36·6	− 3·1	2	0·11	−0·24	*	*
2. ENGLAND, N.E.	Alnwick Castle	38	26	36·7	32·0	34·4	− 5·1	4	0·26	?	*	*
	Shields	40	32	38·4	34·1	36·3	− 3·2	3	0·08	−0·32	*	*
	Durham	40	30	37·4	31·9	34·7	− 5·2	4	0·15	−0·33	1	1
	York	45	31	39·3	34·0	36·7	− 3·3	5	0·18	−0·24	1	1
	Spurn Head	42	34	39·1	35·0	37·1	− 2·6	4	0·30	?	*	*
	Kelstern (Lincolnsh.) ⋕	45	30	38·1	32·5	35·3	− 4·7	4	0·85	+0·40	2	3
3. ENGLAND, E.	Hillington ⋕	49	30	41·4	34·1	37·8	− 2·4	5	0·29	−0·11	6	9
	Yarmouth	40	33	38·1	34·4	36·3	− 3·7	2	0·13	−0·28	*	*
	Geldeston	46	29	41·1	34·2	37·7	− 2·4	4	0·36	−0·04	7	10
	Cambridge	44	29	39·7	32·6	36·2	− 4·7	4	0·32	−0·02	0	0
	Rothamsted	44	28	40·3	33·1	36·7	− 4·3	7	0·68	+0·21	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	45	32	40·9	34·9	37·9	− 2·3	2	0·39	+0·01	*	*
	Nottingham	46	31	41·4	35·4	38·4	− 2·4	3	0·42	+0·01	*	*
	Loughborough	51	32	41·7	36·1	38·9	− 1·9	2	0·41	+0·01	*	*
	Leicester	50	31	41·7	36·1	38·9	− 2·1	4	0·49	+0·09	7	10
	Birmingham (Oscott)	51	29	42·6	35·3	39·0	− 2·0	3	0·37	−0·18	*	*
	Cheadle ⋕	46	29	40·6	33·8	37·2	− 4·7	2	0·18	?	*	*
	Churchstoke ⋕	52	27	43·1	35·5	39·3	− 2·7	1	0·07	?	3	4
	Hereford ⋕	50	32	42·2	37·0	39·6	− 2·4	4	0·23	−0·29	*	*
	Cirencester	46	31	40·9	35·4	38·2	− 3·7	5	0·42	−0·18	6	9
	Oxford	46	33	40·9	35·4	38·2	− 3·7	5	0·16	−0·25	4	6
5. ENGLAND, S.	London†	49	31	41·9	34·4	38·2	− 3·3	4	0·66	+0·26	0	0
	Marlborough ⋕	49	28	41·6	33·8	37·7	− 4·5	3	0·30	−0·24	*	*
	Strathfield Turgiss ⋕	47	29	42·6	33·2	37·9	− 3·6	1	0·01	−0·44	*	*
	Dover	46	34	43·3	37·0	40·2	− 1·1	3	0·37	−0·07	*	*
	Hastings (St. Leonard's)	50	33	44·4	37·3	40·9	− 1·0	5	0·07	−0·33	*	*
	Southampton	52	31	44·9	34·9	39·9	− 2·1	3	0·23	?	9	13
	Hurst Castle	46	34	43·3	36·4	39·9	− 1·9	2	0·45	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	29	42·4	35·4	38·9	− 1·0	1	0·01	?	*	*
	Glasgow	44	28	38·6	32·6	35·6	− 4·4	0	—	−0·95	5	7
	Ardrossan	45	33	41·1	34·7	37·9	− 2·1	2	0·08	−0·70	*	*
	Silloth (Cumberland)	46	32	41·2	35·2	38·2	− 2·6	1	0·02	−0·58	5	7
	Douglas (Isle of Man)	45	33	41·3	37·4	39·4	− 2·4	1	0·01	−0·84	6	9
7. ENGLAND, N.W.	Barrow-in-Furness	46	32	41·7	35·7	38·7	− 2·3	2	0·05	?	*	*
	Stonyhurst	44	30	39·7	34·3	37·0	− 3·9	0	—	−0·89	5	7
	Blackpool ⋕	45	32	41·2	35·5	38·4	− 3·1	2	0·02	−0·53	*	*
	Manchester	44	30	41·0	34·1	37·6	− 3·4	1	0·04	−0·50	*	*
	Liverpool Obsy (Bidston)	45	32	41·4	37·1	39·3	− 2·7	0	—	−0·35	*	*
	Llandudno ⋕	54	32	46·7	37·9	42·3	− 1·2	0	—	−0·54	13	19
	Holyhead	47	33	43·0	38·8	40·9	− 2·0	2	0·05	−0·50	*	*
8. ENGLAND, S.W.	Pembroke	46	33	43·4	39·3	41·4	− 2·2	1	0·06	−0·64	11	16
	Arlington (N. Devon)	52	32	44·9	36·4	40·7	− 2·8	2	0·10	?	*	*
	Falmouth	50	37	46·4	42·4	44·4	− 0·6	2	0·06	−0·79	2	3
	Plymouth	53	35	47·8	39·2	43·5	− 0·4	2	0·07	−0·73	*	*
	Prawle Point	49	36	44·6	39·7	42·2	− 1·6	2	0·15	?	*	*
9. IRELAND, N.	Londonderry	48	32	43·7	38·5	41·1	− 0·4	2	0·27	−0·41	*	*
	Mullaghmore	50	33	44·7	39·4	42·1	+ 0·3	3	0·45	?	*	*
	Markree Castle	47	32	45·1	39·6	42·4	+ 0·5	3	0·48	−0·22	1	1
	Brookeborough	48	32	44·2	38·6	41·4	− 0·1	2	0·19	?	*	*
	Armagh	48	32	43·5	38·6	41·1	− 0·4	3	0·05	−0·52	1	1
	Donaghadee	48	34	42·6	38·6	40·6	− 0·9	2	0·02	?	*	*
10. IRELAND, S.	Dublin	46	34	43·7	38·8	41·3	− 1·2	2	0·02	−0·38	1	1
	Parsonstown	49	35	45·0	39·6	42·3	+ 0·1	2	0·24	−0·25	3	4
	Waterford	48	36	44·9	40·9	42·9	+ 0·2	4	0·09	−0·70	*	*
	Roche's Point	50	38	48·1	42·1	45·1	+ 1·6	3	0·91	−0·06	*	*
	Valentia	53	41	48·6	42·7	45·7	+ 1·7	4	1·70	+0·65	2	3
	Foynes	54	37	50·9	40·3	45·4	+ 2·5	5	0·58	?	*	*

Stations marked ⋕ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 8.] WEEK ENDING MONDAY, FEBRUARY 28, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	48	21	39	29	34	6 below.	4	6	2 more.	24	33
	2. ENGLAND, N.E.	44	22	38	30	34	6 below.	4	6	3 more.	15	20
	3. ENGLAND, E.	46	24	38	31	35	6 below.	4	4	1 less.	10	13
	4. MID. COUNTIES	45	21	38	28	33	9 below.	3	3	2 less.	17	23
	5. ENGLAND, S.	46	23	39	30	35	8 below.	3	2	2 less.	12	16
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	47	24	40	31	35	5 below.	4	4	2 less.	28	38
	7. ENGLAND, N.W.	45	20	39	31	35	7 below.	2	5	1 less.	25	34
	8. ENGLAND, S.W.	45	26	40	30	35	9 below.	2	2	7 less.	40	53
	9. IRELAND, N.	50	19	42	32	37	5 below.	4	2	4 less.	21	28
	10. IRELAND, S.	51	23	42	31	37	6 below.	3	2	4 less.	29	38

General Remarks.

Weather has been rather cloudy generally with some showers of snow, sleet, or hail. At our south-western stations, however, the sky was much clearer than of late.

Temperature was much below the mean in all districts, the deficit being as much as 8° or 9° over the central, southern, and south-western parts of England, and from 5° to 7° in all other districts. The thermometer was generally lowest on the 28th when it fell to 19° at Markree, and to 21° at Churchstoke and Glenalmond. At some stations, however, the lowest readings occurred on the 26th, when a minimum of 20° was recorded at Manchester. The maxima were below 50° at all stations except Foynes and Londonderry.

Rainfall was slightly more than the mean in "Scotland, E." and "England, N.E.," but less in all other places.

Bright sunshine was much more prevalent than for some weeks past—especially in the S.W. The percentages varied from 53 in "England, S.W." to 13 in "England, E."

Depressions observed.—During the first few days some shallow depressions were shown off our E. and S.E. coasts, causing moderate north-easterly or northerly winds over our Islands. By 8 A.M. on the 26th, however, a well defined but shallow depression had been formed over the N. of England, and travelling south-south-westwards, had, by the 28th, disappeared from our area. It caused fresh easterly winds in the N., northerly in the W., light westerly airs in the S., and south-easterly breezes in the E.

O. 5345. 100.—2/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending February 28, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, February 22.

Weather fine in N. Scotland, W. Norway, and some parts of southern England, dull generally. Dull all day, slight snow showers in N.E. and Midland counties.

Temperature fallen in most places,—very quickly in S., readings ranging from 38° at Donaghadee to 26° at Nairn, and 27° at Hurst Castle. Thermometer low all day, maxima between 34° and 42°.

Wind north-easterly to easterly in all parts of western Europe; blowing freshly at some north-western and north-eastern stations, but moderate or light generally. Little change later.

Sea rough on our N.E. coasts.

Barometer falling in all places, but change nowhere great; readings highest (30·8 ins.) in Sweden, and lowest (29·9 ins.) in N. Spain. Small depression lying over the Netherlands. Pressure giving way slowly all day.

Wednesday, February 23.

Weather fine in the N.W. and W. of England, dull and misty in all other places. Dull, except in the above districts, all day, and snow falling in the N.E., S.E., and S.

Temperature changed irregularly; risen in the extreme N. of Scotland, the W. of Norway, and the S.E. of England, fallen in most other places; readings ranging from 38° in the S.W., to 32° at Oxford and Liverpool. Again low all day, maxima between 36° and 45°.

Wind northerly on nearly all our coasts, easterly over France and the Channel, blowing strongly in S.W. Northerly breezes holding all day.

Sea rough on our N.E. coasts and at Prawle Point.

Barometer falling in nearly all places; pressure still highest (30·8 ins.) in Sweden, and lowest in N. Spain, but separate area of high pressure forming in N.W. Small depression shown over North Sea. Pressure increasing slowly during day.

Thursday, February 24.

Weather fine over Scotland and Ireland, dull or cloudy elsewhere; fine in many parts of the country during day but cloudy and showery in S.E.

Temperature risen in the S.E. and S. of England and N. of France, fallen in most other places; readings ranging from 40° at Scilly to 29° at Aberdeen. Maxima higher than of late, generally between 40° and 45°, but sharp frost at night in some places.

Wind northerly in all the more northern parts of the Kingdom, north-easterly to easterly over the Channel and France; still blowing freshly in S.W., moderate to fresh northerly winds holding all day.

Sea rough in S.W.

Barometer falling in Scandinavia, rising elsewhere; pressure high over the Gulf of Bothnia and over Ireland, and low over Spain and Norway. Mercury falling everywhere during day.

Friday, February 25.

Weather fine at several western and northern stations; dull generally, with showers of sleet at Aberdeen and of rain at Mullaghmore. Dull showery weather prevailing in the S. all day, and rain falling at Ardrossan.

Temperature fallen except in some parts of Ireland and Scotland; readings ranging from 39° at Scilly to 28° at Nottingham. Maxima between 40° and 45° generally.

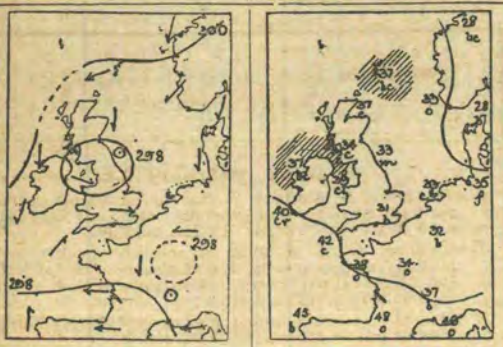
Wind westerly and north-westerly in the N. and E., north-easterly and easterly in the S.; still blowing strongly in S.W. Wind falling lighter later, but little other change.

Sea moderate or slight.

Barometer falling over the whole of western Europe; quickly in Sweden. Area of high pressure disappeared from Baltic, and readings ranging from 30·29 ins. at Valentia to 29·8 ins. at Haparanda and Biarritz. Barometer falling all day, and depression forming over North Sea.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, February 26.

Weather fine in London and most parts of Ireland, cloudy or dull elsewhere, with mist in the E. and showers at Aberdeen, Donaghadee, and Valentia; heavy snow at York. Weather fine in S.E. later.

Temperature fallen except in S. Ireland and central England; readings ranging from 42° at Scilly to 30° at Nairn and 31° in London. Rising briskly in S.E. later, but falling again at night.

Wind northerly and north-easterly on our northern and western coasts, easterly over France, and light and variable in our southern districts. Wind shifting to S. in the S.E. later; little other change.

Sea rough in N.W. and extreme N.E.

Barometer rising over Scandinavia and extreme N. of Scotland, falling elsewhere; shallow depression over northern England. Pressure still increasing in N. later, and depression passing south-westwards to Wales.

Sunday, February 27.

Weather cloudy or dull except in some parts of Scandinavia, the N. of Scotland, and N.W. of France. Snow falling in the N.E. and in London. Snow or sleet showers occurring very generally during day, but sky clearing in S.E. at night.

Temperature fallen fast on the eastern shores of the North Sea, changed very slightly over these Islands. Readings ranging from 42° at Scilly to 32° at York. Maxima between 36° and 46°.

Wind north-easterly on nearly all coasts, blowing freshly in the N. and N.W., easterly winds holding all day.

Sea rough in the N.E. and at Mullaghmore.

Barometer falling over France and our S.W. coasts and in N. Scandinavia, rising elsewhere. Large area of high pressure in the N. with depression over Bay of Biscay. Mercury falling slowly all day, but decrease uniform.

Monday, February 28.

Weather dull with snow at some central and eastern stations, and wet in S.W. France, but sky clear or nearly so generally. Fine in most districts during day, but occasional slight falls of snow.

Temperature fallen several degrees generally; sharp frost E.; readings ranging from 36° at Scilly to 25° in N. Scotland. Maxima varying from about 40° in W. to about 35° in E. Sharp frost at night.

Wind northerly on most of our coasts, but drawing into E. over the Channel and France; moderate, except at Scilly. Light or moderate northerly winds holding all day.

Sea rough at the mouth of the Humber.

Barometer falling, except at Valentia; areas of comparatively high pressures reported from Sweden and from our N.W. coasts, with a large depression over Spain. Mercury rising during day, except in N.E.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	43	21	40·4	26·7	33·6	−5·5	5	1·12	+0·73	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	47	35	43·0	37·0	40·0	−6·4	3	0·15	−0·45	*	*
	Jersey (Noirmont)	43	32	41·7	36·3	39·0	−5·0	3	1·37	+0·79	21	28

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	42	25	37·7	29·0	33·4	− 6·1	4	0·40	+0·10	*	*
	Aberdeen	42	23	38·4	23·9	33·7	− 6·0	6	0·56	+0·06	16	22
	Glenalmond	46	21	37·9	27·1	32·5	− 7·4	3	0·62	?	32	43
	Leith	48	28	42·1	30·1	36·1	− 4·0	4	0·78	+0·48	*	*
2. ENGLAND, N.E.	Alnwick Castle	41	23	37·4	29·0	33·2	− 6·8	5	0·55	?	*	*
	Shields	43	29	38·9	30·9	34·9	− 5·1	5	1·18	+0·79	*	*
	Durham	44	22	38·5	26·8	32·7	− 7·3	4	0·78	+0·32	19	26
	York	42	27	38·1	29·1	33·6	− 6·9	5	0·57	+0·14	12	16
	Spurn Head	41	32	38·7	33·0	35·9	− 4·1	1	0·03	?	*	*
	Kelstern (Lincolnsh.) ℳ	42	25	37·0	28·6	32·8	− 8·1	3	0·26	−0·15	13	17
3. ENGLAND, E.	Hillington ℳ	45	29	40·4	31·1	35·8	− 4·8	4	0·31	−0·08	14	19
	Yarmouth	40	29	37·1	31·7	34·4	− 6·4	4	0·33	−0·07	*	*
	Geldeston	43	24	39·0	31·1	35·1	− 5·5	5	0·46	+0·05	7	9
	Cambridge	46	27	39·1	30·1	34·6	− 6·7	4	0·25	−0·10	9	12
	Rothamsted	42	26	35·8	29·2	32·5	− 8·7	4	0·14	−0·28	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	23	38·3	28·1	33·2	− 7·3	4	0·30	−0·05	*	*
	Nottingham	43	26	38·9	28·4	33·7	− 7·4	5	0·32	−0·10	*	*
	Loughborough	43	26	39·5	29·3	34·4	− 6·6	4	0·20	−0·20	*	*
	Leicester	42	27	38·1	29·6	33·9	− 7·3	3	0·30	−0·10	13	17
	Birmingham (Oscott)	45	23	38·6	26·6	32·6	− 8·7	2	0·49	−0·06	*	*
	Cheadle ℳ	39	22	35·8	27·8	31·8	−10·4	3	0·52	?	*	*
	Churchstoke ℳ	43	21	37·2	26·8	32·0	−10·1	4	0·38	?	21	28
	Hereford ℳ	44	25	38·6	28·1	33·4	− 8·8	4	0·30	−0·18	*	*
	Cirencester	42	23	37·4	27·2	32·3	− 9·8	2	0·19	−0·33	21	28
	Oxford	45	26	38·4	30·6	34·5	− 7·5	2	0·07	−0·33	13	17
5. ENGLAND, S.	London†	46	27	38·4	30·1	34·3	− 7·8	4	0·62	+0·26	5	7
	Marlborough ℳ	43	24	37·1	28·6	32·9	− 9·2	2	0·05	−0·45	*	*
	Strathfield Turgiss ℳ	44	23	38·1	28·5	33·3	− 8·6	1	0·05	−0·35	*	*
	Dover	40	32	39·3	33·7	36·5	− 5·4	6	0·23	−0·15	*	*
	Hastings (St. Leonard's)	43	29	40·0	32·0	36·0	− 6·5	5	0·32	−0·08	*	*
	Southampton	45	26	40·3	29·5	34·9	− 7·6	1	0·10	?	19	25
	Hurst Castle	43	26	39·6	29·0	34·3	− 7·7	1	0·12	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	45	24	40·2	29·7	35·0	− 4·9	3	0·18	?	*	*
	Glasgow	43	25	38·4	32·4	35·4	− 4·6	4	0·36	−0·46	22	29
	Ardrossan	47	25	40·4	30·0	35·2	− 5·1	4	0·12	−0·58	*	*
	Silloth (Cumberland)	45	24	40·9	30·0	35·5	− 5·4	4	0·42	−0·13	28	38
	Douglas (Isle of Man)	45	27	40·8	30·6	35·7	− 6·3	5	1·07	+0·31	35	47
7. ENGLAND, N.W.	Barrow-in-Furness	45	28	41·7	30·9	36·3	− 4·9	3	0·51	?	*	*
	Stonyhurst	39	25	37·1	29·5	33·3	− 7·7	2	0·68	−0·17	23	31
	Blackpool ℳ	40	25	39·1	29·3	34·2	− 7·5	2	0·64	+0·13	*	*
	Manchester	39	20	37·3	26·5	31·9	− 9·2	1	0·67	+0·16	*	*
	Liverpool Obs' (Bidston)	40	29	38·3	31·7	35·0	− 7·1	2	0·23	−0·09	*	*
	Llandudno ℳ	43	28	39·6	31·7	35·7	− 6·8	3	0·35	−0·15	27	36
	Holyhead	42	29	39·4	33·9	36·7	− 6·3	4	0·15	−0·36	*	*
8. ENGLAND, S.W.	Pembroke	42	30	40·3	31·3	35·8	− 7·9	3	0·18	−0·51	47	63
	Arlington (N. Devon)	40	26	37·7	27·9	32·8	−10·7	2	0·08	?	*	*
	Falmouth	45	31	40·3	32·7	36·5	− 8·8	3	0·05	−0·75	32	43
	Plymouth	43	27	41·5	29·0	35·3	− 8·7	1	0·04	−0·71	*	*
	Prawle Point	41	26	39·6	29·9	34·8	− 9·2	2	0·38	?	*	*
9. IRELAND, N.	Londonderry	50	28	43·1	32·3	37·7	− 3·8	5	0·24	−0·36	*	*
	Mullaghmore	47	25	42·1	33·7	37·9	− 4·1	3	0·10	?	*	*
	Markree Castle	47	19	42·2	28·6	35·4	− 6·6	4	0·10	−0·60	23	31
	Brookeborough	48	24	41·4	30·0	35·7	− 6·2	3	0·17	?	*	*
	Armagh	45	26	40·0	31·0	35·5	− 6·5	4	0·21	−0·32	18	24
	Donaghadee	47	32	41·1	33·9	37·5	− 4·1	3	0·30	?	*	*
10. IRELAND, S.	Dublin	46	27	40·3	32·3	36·3	− 6·2	4	0·44	+0·05	27	36
	Parsonstown	44	23	40·1	28·6	34·4	− 8·1	4	0·34	−0·15	23	31
	Waterford	47	27	41·4	31·5	36·5	− 6·4	4	0·25	−0·50	*	*
	Roche's Point	45	28	43·0	32·0	37·5	− 6·5	1	0·20	−0·70	*	*
	Valentia	47	29	43·1	32·6	37·9	− 6·1	2	0·13	−0·87	36	48
	Poynes	51	27	45·4	30·3	37·9	− 5·1	1	0·03	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 9.] WEEK ENDING MONDAY, MARCH 7, 1881. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	44	12	37	26	32	8 below.	3	9	3 more.	18	24
	2. ENGLAND, N.E.	58	17	41	29	35	6 below.	6	16	12 more.	17	23
	3. ENGLAND, E.	59	21	45	33	39	2 below.	5	11	7 more.	24	31
	4. MID. COUNTIES	62	16	46	34	40	2 below.	6	18	10 more.	15	19
	5. ENGLAND, S.	59	22	48	37	42	0 (average).	5	18	13 more.	16	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	19	40	30	35	6 below.	5	12	8 more.	6	8
	7. ENGLAND, N.W.	54	19	43	33	38	4 below.	6	13	8 more.	12	16
	8. ENGLAND, S.W.	54	21	48	38	43	2 below.	5	19	16 more.	14	18
	9. IRELAND, N.	55	20	45	34	39	3 below.	6	13	2 more.	11	15
	10. IRELAND, S.	57	22	49	38	43	0 (average).	6	17	12 more.	15	20

General Remarks.

Weather has been very dull and squally everywhere with exceedingly heavy snow at all the more northern stations, and much rain in the S. and S.W. Lightning was seen at Nottingham on the 4th, and thunder occurred at Kelstern on the 7th.

Temperature was about equal to the mean in "England, S." and "Ireland, S.," but below it in all other districts, the deficit being as much as 6° to 8° in Scotland and the N.E. of England. The thermometer was lowest on the 1st and 2nd, when it fell to 12° at Glenalmond, 16° at Churchstoke, and 17° at Shields, and in all districts the minima were below 25°. At the close of the period readings were much higher, a maximum of 62° being recorded at Nottingham, and of 58° or 59° in several other parts of England.

Rainfall was more than the mean in all districts, the excess in nearly all places being very great.

Bright sunshine was very little prevalent, the percentages varying from 8 in "Scotland, W." and 15 in "Ireland, N." to 31 in "England, E."

Depressions observed.—No. 1 was shown off the N.E. coast of Scotland on the 1st. It was very shallow and caused light westerly breezes in nearly all districts. No. 2 was much deeper, and advanced very slowly from the south-westward, accompanied by several small subsidiary disturbances. At the close of the period it had reached our N.E. coasts and become much less serious. It brought strong or heavy south-easterly and southerly gales to nearly all stations, and much rain, sleet, or snow. By the 7th, however, the wind was light on all except the southern coasts.

Q 5458. 100.—3/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 7, 1881.

Synoptic Weather Charts.—8 a.m.		Weather during the 24 hours succeeding the date of the Charts.
Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	
		Tuesday, March 1. *Weather* fine at the great majority of stations, but rain falling at Mullaghmore and snow at Ardrossan and in N. Germany. Cloudy overcast weather spreading slowly over our N.W. stations later, but sky keeping clear generally. *Temperature* risen on our extreme W. coasts, fallen generally; readings ranging from 37° in the S.W. to 22° at Cambridge, and 25° at Wick. Temperature rising during day, and maxima between 40° and 47°, except in extreme E. and N. *Wind* light from W. on our coasts, fresh from N. in Denmark and N. Germany, and light to fresh from E. and N.E. in France. Wind backing to S.W. and S. during day. *Sea* moderate or smooth. *Barometer* rising except over N. Germany and the Baltic. Areas of high pressure reported from Lapland and from our S.W. coasts, with depression over S. Sweden. Pressure beginning to give way in the W. later.
		Wednesday, March 2. *Weather* dull and gloomy over Ireland and the S.W. coasts of England, as well as at some of our midland stations, snow falling at Oxford; fine and bright elsewhere. Cloudy and rainy in the W. later, fine in the E. *Temperature* fallen over France and Scotland, risen elsewhere; readings ranging from 44° in the S.W. to 19° at Shields, and to 30° at Toulon. Thermometer rising several degrees later, but still low in N.E. *Wind* backed to S.E. in the S.W. and W., and blowing strongly, but light westerly breezes prevailing in E. Wind rising to a gale in Ireland later, and southerly winds extending over us. *Sea* rough on our S.W. coasts. *Barometer* falling in the extreme S.W.; rising elsewhere. Large anticyclone lying over Great Britain and France. Mercury falling quickly in W. later, but rising in N. and E. Large depression advancing on our S.W. coasts.
		Thursday, March 3. *Weather* fine in the countries to the eastward of the North Sea and the E. of France, dull and unsettled elsewhere with rain in Ireland and snow in England N.W. Snow in N.W. all day and rain in W. *Temperature* fallen in N. Germany; risen elsewhere—quickly in our northern districts; readings ranging from 47° at Scilly to 28° at Nairn. Thermometer low all day, except in S.W. *Wind* south-easterly to southerly on all our own and the French coasts; blowing strongly generally, and reaching a fresh to strong gale in the W. South-easterly and southerly gales felt on all coasts during day. *Sea* very rough in S.W. and W. *Barometer* rising fast in Scandinavia and Denmark; falling elsewhere—very quickly on our S.W. coasts. Large depression shown on our S.W. coasts. Mercury falling all day, and steep gradients forming over us.
		Friday, March 4. *Weather* still very unsettled, cloudy or dull in all places with rain in the S. and snow in the N.E. Rain or snow occurring at intervals all over the country; very rough squally weather in N.E. *Temperature* fallen in the N.E.; risen generally; readings ranging from 51° at Scilly to 33° over central and north-eastern England. Temperature low generally during day, except in S.W. *Wind* southerly over France and the Channel, south-easterly in most other places; blowing strongly everywhere, and reaching a heavy gale in the N.E. Very strong gale reported all day in the N.E., and wind strong and squally except in the S. *Sea* rough on nearly all coasts, and very high in the N.E. *Barometer* falling quickly, except in Scandinavia. Large area of high pressure shown over Sweden, and large depression on our S.W. coasts. Mercury falling all day, and small subsidiary disturbance appearing in S.W.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877.)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1881 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the FOURTH QUARTER of the YEAR (October 1st to December 31st).

Vol. IV., No. 52a. (Issued as part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	20·6	9·0	6·0	5·9	6·7	6·3	9·1	14·4	15·3	12·4	11·9	9·2	12·6	10·7
	1867	16·8	5·7	4·8	5·7	5·5	5·8	7·4	10·4	10·3	12·1	9·6	7·5	10·0	8·6
	1868	19·0	10·3	9·5	7·9	9·7	11·4	11·3	15·1	18·5	18·3	14·0	14·3	16·0	13·5
	1869	19·8	9·8	7·9	9·1	7·7	8·5	10·5	14·0	13·6	14·3	13·1	9·5	12·9	11·6
	1870	16·0	9·3	10·5	8·4	8·6	9·5	10·4	10·6	16·0	15·9	14·6	12·2	13·9	12·0
	1871	15·1	7·3	5·4	4·3	4·2	4·6	6·8	10·7	13·7	12·4	7·6	9·4	10·2	8·3
	1872	18·0	15·0	11·6	10·6	12·0	16·5	14·0	16·3	1[illegible]	25·1	16·8	17·6	18·6	16·1
	1873	21·2	9·6	3·5	4·6	4·6	6·5	8·3	11·7	10·6	9·4	7·9	7·7	9·5	8·8
	1874	17·8	9·2	8·0	7·0	7·4	10·6	10·0	14·4	15·0	16·0	13·0	12·7	14·2	11·9
	1875	13·7	11·1	10·1	9·6	11·4	11·2	11·2	12·5	12·7	18·5	10·1	13·1	13·4	12·2
	Means for 10 years, 1866 to 1875	17·8	9·6	7·7	7·3	7·8	9·1	9·9	13·0	14·0	15·4	11·9	11·3	13·1	11·4
	1876	13·7	13·2	10·5	7·5	11·7	13·4	11·7	16·0	14·1	19·1	14·4	17·6	16·2	13·7
	1877	23·1	11·3	6·4	6·4	7·4	10·6	10·9	18·1	17·8	17·2	14·3	14·0	16·3	13·3
	1878	11·1	8·4	10·3	9·7	8·0	8·5	9·3	11·1	9·0	13·6	11·9	8·2	10·8	10·0
	1879	8·6	4·8	3·6	3·4	2·7	2·6	4·3	6·2	5·5	4·5	5·0	4·3	5·1	4·7
	1880	12·8	8·5	9·8	9·3	11·0	13·0	10·7	12·3	13·7	16·1	9·5	12·6	12·8	11·7
	1881	12·0	7·3	7·4	8·6	8·7	9·8	9·0	15·2	11·9	14·3	12·0	15·0	13·7	11·1
	Means for 16 years, 1866 to 1881	16·2	9·3	7·8	7·4	8·0	9·3	9·7	13·1	13·3	14·9	11·6	11·5	12·9	11·1
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	43·6	44·2	45·1	46·1	45·7	46·8	45·3	46·0	46·2	50·3	45·4	46·9	47·0	46·0
	1867	43·9	42·9	42·3	43·0	42·6	43·2	43·0	43·4	42·9	45·8	44·2	44·9	44·2	43·6
	1868	42·0	42·0	43·1	44·8	44·3	45·5	43·6	43·6	44·2	48·1	44·0	45·5	45·1	44·3
	1869	40·9	41·5	41·8	42·7	42·9	43·7	42·3	42·5	43·9	46·6	44·7	45·5	44·6	43·3
	1870	40·3	40·0	40·3	41·6	41·3	41·9	40·9	40·5	41·6	44·4	41·5	43·2	42·2	41·5
	1871	42·2	42·1	42·3	41·5	41·7	41·8	41·9	42·4	43·0	45·3	43·2	44·7	43·7	42·7
	1872	42·4	42·0	43·3	44·4	44·2	45·4	43·6	43·6	44·4	47·3	42·8	44·1	44·4	44·0
	1873	43·4	42·9	44·2	43·9	43·6	44·5	43·8	44·2	44·7	46·9	44·3	46·3	45·3	44·4
	1874	41·4	39·9	40·8	41·8	41·7	43·0	41·4	40·5	42·3	46·0	42·8	45·7	43·5	42·4
	1875	42·7	42·1	43·0	42·7	43·0	43·5	42·8	42·8	43·6	45·9	43·5	46·0	44·4	43·5
	Means for 10 years, 1866 to 1875	42·3	42·0	42·6	43·3	43·1	43·9	42·9	43·0	43·7	46·7	43·6	45·3	44·5	43·6
	1876	44·0	43·4	45·2	46·2	44·8	47·2	45·1	44·6	46·1	49·0	45·7	48·1	46·7	45·8
	1877	42·9	43·3	43·6	44·4	44·1	44·8	43·9	44·5	45·3	49·2	44·4	47·4	46·2	44·9
	1878	40·5	39·7	39·8	40·8	40·7	42·3	40·6	40·9	41·5	44·5	42·1	42·8	42·4	41·4
	1879	41·8	41·0	40·3	39·7	39·8	41·2	40·6	42·2	42·0	45·3	43·0	45·0	43·5	41·8
	1880	39·1	40·4	42·4	43·6	45·6	45·3	42·7	42·2	43·6	47·7	42·9	44·9	44·3	43·4
	1881	43·2	43·0	43·2	43·5	43·2	45·2	43·6	44·3	44·5	47·7	44·3	46·8	45·5	44·4
	Means for 16 years, 1866 to 1881	42·2	41·9	42·5	43·2	43·1	44·1	42·8	43·0	43·8	46·9	43·7	45·5	44·6	43·6

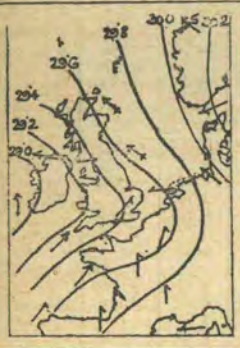
TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 16 years, 1866 to 1881.

—		WHEAT DISTRICTS.	GRAZING, &c. DISTRICTS.	GENERALLY.
		inches.	inches.	inches.
Rainfall	Driest	1879 - - - 4·3	1879 - - - 5·1	1879 - - 4·7
	Wettest	1872 - - - 14·0	1872 - - - 18·6	1872 - - 16·1
		°	°	°
Temperature	Coldest	1878 and 1879 - 40°·6	1870 - - 42°·2	1878 - - 41°·4
	Warmest	1866 - - - 45°·3	1866 - - 47°·0	1866 - - 46°·0

R 143. 100.—1/82. Wt. 230. E. & S.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 5.

Weather very unsettled, sky overcast except in N. Scandinavia; rain falling in parts of France and the E. of England, and snow on our N.E. coasts. Very boisterous weather in the N. with continuous snow; heavy rain in S.E. at night.

Temperature risen except Scotland; readings ranging from 52° in the S.W. to 33° at Nairn. Maxima generally between 45° and 55° over Ireland and England but much lower in Scotland.

Wind southerly and south-westerly over France and our southern districts, south-easterly over the North Sea and our northern coasts. Strong in force generally and blowing severe gale in the N.E. Very heavy gale holding all day.

Sea rough in the W., S.W. and S.E. and very rough in the N.E.

Barometer falling everywhere; large depression lying off our W. coasts with smaller disturbances passing eastward across England. Pressure very high in Sweden. Mercury rising in S.E. later, but falling quickly in S.W.

Sunday, March 6.

Weather fine in some parts of the S.E. of England, dull, cloudy, or foggy elsewhere, with snow in the N.E. of Scotland. Very cloudy, unsettled, showery weather prevailing all day.

Temperature changed rather irregularly, but risen fast over the eastern and central districts of England; readings ranging from 51° at Scilly to 32° at Aberdeen. Thermometer rising in N.E. later, and maxima about 40° in Scotland, and between 45° and 55° elsewhere.

Wind southerly and south-westerly over France and England, easterly over the North Sea, and south-easterly over Scotland. Blowing strongly on most coasts, and gale still holding in the N. of Scotland. Wind falling lighter during day except in Caithness.

Sea rough generally, and very high in N.E.

Barometer rising in S.W.; falling elsewhere. Readings high over Gulf of Lyons and Gulf of Bothnia, and lowest off our N.W. coasts, but small depression at the mouth of the Tyne. Pressure increasing during the day, except over Scandinavia.

Monday, March 7.

Weather unsettled; cloudy except over central England, with rain, mist, or fog in several places, and snow over the Baltic and S. of Norway. Very showery weather prevailing all day.

Temperature fallen in Ireland and parts of Scandinavia; risen generally; readings ranging from 54° in London to 32° at Nairn. Maxima between 40° and 45° in Scotland, between 45° and 55° generally.

Wind southerly and south-westerly on nearly all our own and the French coasts, and south-easterly on the eastern shores of the North Sea, but northerly breezes reported from W. Ireland. Blowing strongly over the channel, but moderate to fresh generally. Wind veering to W. and N.W. later.

Sea very rough in the S.W. and N.E.

Barometer falling except in S. France; large depression over our western coasts and small subsidiary disturbance near the mouth of the Tyne. Depressions travelling eastward during day, and pressure recovering in W.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head										*	*
	Stornoway										*	*
	Wick	42	20	37·3	27·7	32·5	−7·0	5	0·37	+0·02	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	34	50·9	41·9	46·4	+4·5	6	1·44	+0·89	*	*
	Jersey (Noirmont)	54	32	48·9	40·0	44·5	+0·4	5	0·92	+0·27	19	25

* The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	21	37·3	27·4	32·4	− 7·0	2	0·02	−0·27	*	*
	Aberdeen	40	18	36·6	27·0	31·8	− 8·2	3	1·17	+0·68	18	24
	Glenalmond	43	12	37·2	23·6	30·4	− 9·6	3	?1·76	?	18	24
	Leith	41	19	38·0	27·1	32·6	− 7·8	5	0·73	+0·43	*	*
2. ENGLAND, N.E.	Alnwick Castle	43	20	37·0	29·9	33·5	− 6·8	4	1·91	?	*	*
	Shields	51	17	39·3	26·9	33·1	− 7·1	6	1·91	+1·53	*	*
	Durham	50	18	39·6	27·1	33·4	− 6·8	5	1·27	+0·80	17	23
	York	58	19	43·0	26·7	34·9	− 5·9	6	1·67	+1·26	12	16
	Spurn Head	55	27	42·9	34·3	37·1	− 3·3	7	1·24	?	*	*
	Kelstern (Lincolnsh.) ⁂	57	20	42·5	29·6	36·1	− 4·9	6	1·40	+1·00	23	30
3. ENGLAND, E.	Hillington ⁂	58	25	43·4	33·1	38·3	− 2·6	5	0·96	+0·62	23	30
	Yarmouth	57	25	43·9	31·6	37·8	− 3·3	3	0·93	+0·45	*	*
	Geldeston	58	23	44·7	33·9	39·3	− 1·7	5	0·97	+0·57	29	38
	Cambridge	59	21	47·7	32·6	40·2	− 1·3	5	0·94	+0·59	20	26
	Rothamsted	58	21	46·1	34·6	40·4	− 1·1	5	1·69	+1·29	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	23	44·9	34·1	39·5	− 1·4	6	2·00	+1·65	*	*
	Nottingham	62	19	46·4	31·4	38·9	− 2·4	6	1·11	+0·70	*	*
	Loughborough	58	24	46·9	34·3	40·6	− 0·9	6	1·37	+0·97	*	*
	Leicester	56	23	44·8	35·4	40·1	− 1·5	5	0·94	+0·56	14	18
	Birmingham (Oscott)										*	*
	Cheadle	54	21	41·3	31·7	36·5	− 6·0	6	2·28	?	*	*
	Churchstoke	56	16	45·1	34·1	39·6	− 2·5	6	1·53	?	15	20
	Hereford	58	25	48·5	35·7	42·1	− 0·4	5	1·36	+0·94	*	*
	Cirencester	55	19	47·3	33·7	40·5	− 1·5	5	1·91	+1·43	13	17
	Oxford	59	23	49·7	35 0	42·4	+ 0·2	7	1·34	+0·94	17	22
5. ENGLAND, S.	London†	59	23	49·6	35·4	42·5	0·0	5	1·32	+0·98	12	16
	Marlborough	57	22	48·7	36·3	42·5	− 0·1	5	2·21	+1·75	*	*
	Strathfield Turgiss ⁂	58	23	49·4	37·1	43·3	+ 1·3	5	1·27	+0·89	*	*
	Dover	50	28	45·6	36·1	40·9	− 1·2	5	1·73	+1·31	*	*
	Hastings (St. Leonard's)	50	25	45·8	37·7	41·8	− 1·2	5	2·08	+1·68	*	*
	Southampton	56	24	49·2	37·6	43·4	+ 0·7	5	2·05	?	19	25
	Hurst Castle	52	25	48·0	36·4	42·2	− 0·3	5	1·63	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	53	24	41·8	32·7	37·3	− 2·7	2	0·33	?	*	*
	Glasgow	42	19	36·6	28·1	32·4	− 7·8	5	0·82	+0·11	4	5
	Ardrossan	47	24	39·3	29·0	34·2	− 6·3	5	1·14	+0·52	*	*
	Silloth (Cumberland)	49	21	39·7	28·2	34·0	− 7·0	5	1·38	+0·89	6	8
	Douglas (Isle of Man)	51	24	42·1	32·9	37·5	− 4·6	7	2·36	+1·66	9	12
7. ENGLAND, N.W.	Barrow-in-Furness	50	25	41·9	31·1	36·5	− 4·9	6	1·41	?	*	*
	Stonyhurst	53	19	40·2	29·8	35·0	− 6·5	6	1·29	+0·48	11	14
	Blackpool ⁂	50	27	41·8	32·2	37·0	− 4·8	6	1·32	+0·82	*	*
	Manchester	54	19	41·6	30·5	36·1	− 5·3	5	1·86	+1·36	*	*
	Liverpool Obsy (Bidston)	54	30	44·0	34·1	39·1	− 3·3	7	1·43	+1·12	*	*
	Llandudno ⁂	53	31	45·1	37·2	41·2	− 1·3	7	0·82	+0·35	13	17
	Holyhead	50	31	44·7	36·7	40·7	− 2·3	6	1·06	+0·56	*	*
8. ENGLAND, S.W.	Pembroke	48	30	45·0	39·0	42·0	− 2·1	6	2·23	+1·58	14	18
	Arlington (N. Devon)	54	21	48·3	35·1	41·7	− 2·2	5	1·80	?	*	*
	Falmouth	53	30	48·3	41·4	44·9	− 0·6	6	2·40	+1·63	13	17
	Plymouth	52	23	48·7	36·7	42·7	− 1·4	5	2·17	+1·47	*	*
	Prawle Point	51	25	47·4	37·3	42·4	− 1·6	5	0·84	?	*	*
9. IRELAND, N.	Londonderry	54	27	43·3	33·2	38·3	− 3·3	6	0·96	+0·36	*	*
	Mullaghmore	54	29	45·7	35·1	40·4	− 1·6	7	1·41	?	*	*
	Markree Castle	55	20	46·4	33·1	39·8	− 2·2	5	0·60	−0·11	14	18
	Brookeborough	54	25	45·1	33·4	39·3	− 2·6	5	1·40	?	*	*
	Armagh	53	27	44·1	33·9	39·0	− 2·9	6	1·47	+0·98	8	11
	Donaghadee	55	27	43·0	33·6	38·3	− 3·7	7	2·10	?	*	*
10. IRELAND, S.	Dublin	56	27	46·4	37·1	41·8	− 1·1	7	1·61	+1·22	15	20
	Parsonstown	57	24	48·4	34·6	41·5	− 1·1	7	1·01	+0·51	14	18
	Waterford	53	22	48·1	37·9	43·0	0·0	6	2·19	+1·44	*	*
	Roche's Point	53	29	49·1	38·7	43·9	− 0·2	5	1·53	+0·67	*	*
	Valentia	55	29	51·9	41·4	46·7	+ 2·7	5	3·13	+2·16	17	22
	Foynes	57	31	48·9	37·3	43·1	+ 0·1	5	0·98	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
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(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

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[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	58	30	48	36	42	2 above.	5	5	1 more.	23	29
	2. ENGLAND, N.E.	58	34	49	40	45	4 above.	4	3	2 less.	19	24
	3. ENGLAND, E.	61	33	52	41	47	5 above.	2	2	2 less.	25	32
	4. MID. COUNTIES	62	33	53	42	47	5 above.	3	2	3 less.	16	20
	5. ENGLAND, S.	60	36	52	42	47	4 above.	2	1	3 less.	10	12
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	35	49	41	45	4 above.	6	14	4 more.	10	13
	7. ENGLAND, N.W.	54	37	49	43	46	4 above.	5	11	7 more.	7	8
	8. ENGLAND, S.W.	54	40	49	44	47	2 above.	5	7	1 less.	6	7
	9. IRELAND, N.	57	34	52	43	47	5 above.	5	10	4 more.	12	16
	10. IRELAND, S.	59	38	53	44	49	5 above.	4	6	1 less.	20	25

General Remarks.

Weather has been cloudy generally, but dry except in the N. and N.W. A thunderstorm occurred over central England on the 8th.

Temperature has been much higher than of late, readings being some degrees above the mean in all districts. The thermometer was highest on the 10th or 11th, when it rose to 62° at Nottingham and to 60° or 61° at many other English stations. The lowest of the minima occurred in "Scotland, E." where temperature fell to 30°, and over central and eastern England, where it fell to 33°,

Rainfall was more than the mean in Scotland, "England, N.W.," and "Ireland, N.," but less in all other districts.

Bright sunshine was again very generally deficient, the percentages ranging from 7 or 8 in the western parts of England to 32 in "England E."

Depressions observed.—No. 1 was shown over northern Scotland on the 9th. It was not very deep, but caused fresh or strong westerly winds on nearly all our coasts, which fell lighter as its centre travelled away in a north-easterly direction. No. 2 advanced from the westward, and on the 11th was off the N. of Scotland; it at first moved in a north-easterly direction, but afterwards travelled south-eastwards towards the Baltic. It gave us moderate or fresh westerly winds, which veered to N.W. on our E. coasts in its rear. No. 3 appeared to be of a more serious character and was approaching our W. coasts on the 13th, and caused strong southerly winds in nearly all places, and fresh gales in the extreme W.; by the following day, however, its centre appeared to be some distance to the north-westward of the Hebrides.

Q 5581. 100.—3/81. Wt. 26. E. & S.

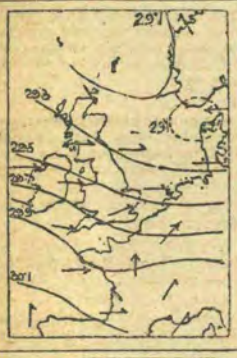
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending March 14, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, March 8.

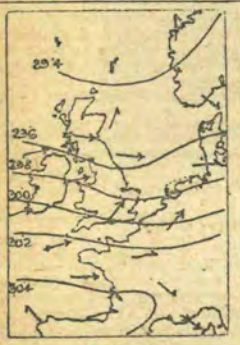
Weather much finer than of late, though showery in the S.E. of England, S. of Ireland, and N. of Scotland. Dull and unsettled in W. later, but fine elsewhere, though with occasional showers.

Temperature risen over Scotland, Denmark, and N. Germany, fallen generally; readings ranging from 47° at Scilly to 38° at Nairn. Maxima about 40° in the N., between 45° and 53° elsewhere.

Wind westerly at nearly all our own, the French, and N. German stations, but easterly and north-easterly over Scandinavia. Light in Scotland, but moderate to strong generally. Wind backing to S.W. in Ireland later, and strong westerly winds prevailing elsewhere.

Sea rough in the W., S., and N.

Barometer fallen over the countries to the eastward of the North Sea, risen fast over these Islands and France. Depression lying near the Skager Rack, with high pressure over Spain. Pressure increasing all day.



Wednesday, March 9.

Weather fine in N. Scotland, but rather cloudy elsewhere, with showers of rain over a large part of England. Weather unsettled all day, and frequent showers of rain falling.

Temperature fallen Scotland and France, risen over England and Ireland. Readings ranging from 51° at Scilly to 35° at Nairn. Maxima higher than on 8th, varying between 45° and 55°, except in extreme N. of Scotland.

Wind light and variable Scotland, fresh to strong from W. and S.W. on most coasts. Blowing a gale at Liverpool, Scilly, and Cape Gris Nez. Blowing strongly from S.W. and W. all day.

Sea rough in the W. and S., and high off the N. of Ireland.

Barometer rising generally; large area of high pressure over Spain, with small disturbance near Shields, and larger depression to the northward of Scotland. Mercury falling a little in Scotland later, still rising elsewhere.

Thursday, March 10.

Weather fine and bright in the E., dull on the Continent generally and our western coasts; fine all day in the S.E., but cloudy or dull elsewhere, with showers in places.

Temperature risen, except in S. France; readings ranging from 53° at Nottingham to 41° at Nairn. Thermometer rising during day, and maxima ranging from about 60° in England, S. to 46° in Scotland, N.

Wind south-westerly in Ireland, but westerly and north-westerly over Great Britain and France, and south-easterly to the eastward of the North Sea. Blowing rather freshly. Moderate westerly breezes holding all day.

Sea rough in the W. and S.

Barometer rising over the whole of these Islands and neighbouring coasts, but falling in S. France. Anticyclone over Bay of Biscay, and depressions over Scandinavia. Pressure increasing all day.

Friday, March 11.

Weather fair on the whole, though cloudy or dull in some places, mist reported from the extreme W. and fog from Scilly. Showery in S.W. later, fine generally.

Temperature fallen in most districts; readings ranging between 47° and 50° over England and Ireland, but down to 43° at Aberdeen. Maxima high generally.

Wind westerly and north-westerly on all our coasts, but south-easterly in Norway, blowing strongly in N.W., but moderately elsewhere. Backing to S.W. in the W. later, but little other change.

Sea rough in the W.

Barometer falling, except on the eastern shores of the North Sea. Anticyclone lying over France, with depression lying to the northward of Scotland. Pressure increasing in N. later, and disturbance moving north-eastward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 12.

Weather fine at many of the more northern stations, dull, misty, and foggy generally. Sky clearing on our S.E. coast later and continuing clear in N., but much cloud and gloom prevailing generally.

Temperature falling everywhere—most in Scotland; readings ranging from 46° in the S.W. to 36° at Nairn. Maxima again moderately high.

Wind easterly over France and the channel, south-easterly in Ireland, and north-westerly over our northern and eastern districts and over the North Sea. Blowing strongly in Norway and Denmark. Wind veering southward on our western coasts later and freshening.

Sea moderate to smooth round our coasts.

Barometer rising over Scandinavia and our northern districts, falling elsewhere. Anticyclone shown over these Islands and France with well marked depression over S. Sweden. Pressure giving way in S.W. and W. later and rising fast in Denmark.

Sunday, March 13.

Weather fine to the eastward of the North Sea and the E. of France, cloudy or dull elsewhere, with rain and fog in the S.W. Cloudy unsettled weather prevailing all day, except in extreme S.E.

Temperature risen in the S.W. and W., fallen briskly elsewhere; readings ranging from 51° at Scilly to 37° at Shields, and to −8° in Lapland. Maxima varying from 58° in W. Ireland to about 40° in the extreme E. and N.E.

Wind easterly in N. Germany, south-easterly and southerly in nearly all other places; moderate in force in the S.E., strong to a gale in W. and N. Gale increasing somewhat in N. Ireland, and N. Scotland later.

Sea rough in S.W., W., and N.E.

Barometer rising fast over Scandinavia; falling elsewhere—quickly in Ireland. Large depression lying off our W. coasts, with large anticyclone over Sweden and Norway. Pressure beginning to recover at Valentia later, still decreasing generally.

Monday, March 14.

Weather fine over the Netherlands, N. Germany, and the E. of England; dull elsewhere. Rain and fog reported on the shores of the Irish Sea. Fair in most places during day, but rain falling in the N.W. and N.E.

Temperature changing little but inclined to fall, except in parts of Scandinavia. Readings ranging from 50° at Scilly to 38° at Yarmouth. Maxima varying from about 40° in the E. to 52° at Valentia.

Wind north-westerly and northerly on our western coasts, and south-easterly and southerly in the east and over the North Sea. Blowing strongly in the S.W. and N.E. Northerly wind spreading over us later, and south-easterly wind falling lighter.

Sea rough to high in the E.

Barometer rising quickly in Ireland, falling elsewhere; depression passing away over Scotland, and area of high pressure still over Sweden. Mercury rising everywhere during day, and readings becoming uniform over these Islands.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	53	32	45·7	35·9	40·8	+1·4	4	0·55	+0·22	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	52	44	51·1	45·9	48·5	+1·4	6	0·29	−0·21	*	*
	Jersey (Noirmont)	55	44	51·6	44·9	48·3	+3·8	2	0·02	−0·68	21	26

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	55	32	47·6	36·4	42·0	+ 2·6	4	0·52	+0·22	*	*
	Aberdeen	58	30	46·4	35·1	40·8	+ 0·6	6	0·45	0·00	23	29
	Glenalmond	51	32	45·7	34·8	40·3	+ 0·1	4	0·62	?	22	28
	Leith	55	35	50·7	38·3	44·5	+ 4·0	5	0·33	+0·03	*	*
2. ENGLAND, N.E.	Alnwick Castle	52	35	47·3	39·0	43·2	+ 2·4	6	0·84	?	*	*
	Shields	55	36	49·3	40·3	44·8	+ 4·0	5	0·21	−0·14	*	*
	Durham	55	34	49·6	38·8	44·2	+ 3·6	4	0·23	−0·22	21	26
	York	56	36	51·6	42·0	46·8	+ 5·8	1	0·05	−0·34	15	19
	Spurn Head	52	36	46·9	40·4	43·7	+ 2·9	3	0·24	?	*	*
	Kelstern (Lincolnsh.) ⁂	58	34	50·6	39·5	45·1	+ 3·9	3	0·28	−0·08	22	28
3. ENGLAND, E.	Hillington ⁂	60	33	52·6	40·5	46·6	+ 5·3	2	0·31	+0·03	26	33
	Yarmouth	58	35	49·7	41·3	45·5	+ 3·8	3	0·27	−0·15	*	*
	Geldeston	60	37	51·9	41·8	46·9	+ 5·2	2	0·19	−0·20	28	34
	Cambridge	61	38	54·1	41·9	48·0	+ 6·2	2	0·15	−0·15	21	28
	Rothamsted	58	34	?51·5	?40·6	?46·1	? + 4·0	3	0·09	−0·31	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	33	53·4	41·7	47·6	+ 6·6	1	0·02	−0·31	*	*
	Nottingham	62	37	53·7	41·9	47·8	+ 6·3	3	0·19	−0·22	*	*
	Loughborough	61	38	53·5	43·2	48·4	+ 6·8	2	0·16	−0·24	*	*
	Leicester	60	38	54·2	43·0	48·6	+ 6·7	2	0·21	−0·17	17	21
	Birmingham (Oscott)	60	38	53·2	42·4	47·8	+ 5·9	2	0·21	−0·32	*	*
	Cheadle ⁂	58	35	51·3	39·9	45·6	+ 2·8	5	0·70	?	*	*
	Churchstoke ⁂	55	39	50·6	42·0	46·3	+ 3·8	4	0·31	?	12	15
	Hereford ⁂	61	40	55·3	43·1	49·2	+ 6·4	3	0·09	−0·31	*	*
	Cirencester	55	35	50·9	40·4	45·7	+ 3·5	3	0·09	−0·36	18	22
	Oxford	58	38	52·6	42·4	47·5	+ 5·2	3	0·06	−0·33	17	21
5. ENGLAND, S.	London†	60	39	54·1	42·4	48·3	+ 5·5	2	0·13	−0·20	10	12
	Marlborough ⁂	57	36	51·9	40·5	46·2	+ 3·2	4	0·20	−0·25	*	*
	Strathfield Turgiss ⁂	57	39	53·9	41·7	47·8	+ 5·1	2	0·09	−0·26	*	*
	Dover	56	37	50·6	42·0	46·3	+ 3·6	3	0·24	−0·19	*	*
	Hastings (St. Leonard's)	55	39	50·0	41·1	45·6	+ 2·4	1	0·05	−0·36	*	*
	Southampton	57	40	52·8	43·1	48·0	+ 5·0	3	0·11	?	9	11
	Hurst Castle	50	42	48·3	43·4	45·9	+ 2·9	2	0·06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	35	49·7	41·0	45·4	+ 5·2	6	3·29	?	*	*
	Glasgow	51	35	47·9	39·4	43·7	+ 3·4	5	0·77	+0·17	12	15
	Ardrossan	51	37	49·1	41·4	45·3	+ 4·3	6	1·10	+0·53	*	*
	Silloth (Cumberland)	54	37	48·4	40·1	44·3	+ 3·3	6	1·03	+0·61	9	11
	Douglas (Isle of Man)	54	40	49·3	43·3	46·3	+ 3·8	7	0·88	+0·23	10	13
7. ENGLAND, N.W.	Barrow-in-Furness	51	40	47·0	41·3	44·2	+ 2·6	5	0·96	?	*	*
	Stonyhurst	53	38	48·7	41·3	45·0	+ 3·0	5	2·18	+1·41	5	6
	Blackpool ⁂	49	40	47·5	41·9	44·7	+ 2·8	5	1·38	+0·90	*	*
	Manchester	54	37	50·1	41·8	46·0	+ 4·1	5	1·63	+1·14	*	*
	Liverpool Obsy (Bidston)	53	40	48·7	43·6	46·2	+ 4·0	5	0·60	+0·29	*	*
	Llandudno ⁂	53	41	51·0	44·2	47·6	+ 5·0	6	0·76	+0·33	8	10
	Holyhead	52	41	49·7	44·3	47·0	+ 3·8	6	0·29	−0·19	*	*
8. ENGLAND, S.W.	Pembroke	48	43	46·7	43·7	45·2	+ 1·2	6	0·53	−0·08	2	2
	Arlington (N. Devon)	52	40	48·9	42·6	45·8	+ 1·8	6	1·02	?	*	*
	Falmouth	54	43	50·6	45·8	48·2	+ 2·4	4	0·34	−0·36	9	11
	Plymouth	54	43	52·2	44·9	48·6	+ 4·3	4	0·96	+0·30	*	*
	Prawle Point	50	42	48·6	43·3	46·0	+ 1·5	4	0·50	?	*	*
9. IRELAND, N.	Londonderry	53	37	51·7	43·5	47·6	+ 5·8	4	1·23	+0·66	*	*
	Mullaghmore	56	38	50·9	43·1	47·0	+ 5·0	5	1·18	?	*	*
	Markree Castle	57	34	53·0	43·2	48·1	+ 6·1	4	0·70	−0·01	14	18
	Brookeborough	54	36	51·2	42·8	47·0	+ 5·0	4	1·13	?	*	*
	Armagh	55	37	51·2	43·7	47·5	+ 5·5	4	0·74	+0·41	10	13
	Donaghadee	57	37	51·3	43·3	47·3	+ 5·3	6	0·73	?	*	*
10. IRELAND, S.	Dublin	57	39	52·3	44·6	48·5	+ 5·5	5	0·14	−0·26	11	14
	Parsonstown	58	38	53·4	43·3	48·4	+ 4·8	4	0·62	+0·09	19	24
	Waterford										*	*
	Roche's Point	59	40	54·0	44·1	49·1	+ 4·6	4	1·15	+0·34	*	*
	Valentia	55	42	53·0	44·7	48·9	+ 4·5	5	0·60	−0·35	29	36
	Foynes	58	39	53·1	43·1	48·1	+ 5·1	4	0·49	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 11.] WEEK ENDING MONDAY, MARCH 21, 1881. [*Price 2d.*

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The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.

2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).

3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.

4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.

5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.

6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).

7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.

8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.

9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.

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	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	17	49	34	41	1 above.	4	5	3 more.	33	39
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	3. ENGLAND, E.	61	26	54	35	44	2 above.	2	1	3 less.	43	52
	4. MID. COUNTIES	63	28	53	36	45	2 above.	2	1	3 less.	38	46
	5. ENGLAND, S.	62	30	54	38	46	2 above.	2	1	3 less.	34	41
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	28	48	37	43	1 above.	4	4	1 less.	27	33
	7. ENGLAND, N.W.	56	30	48	39	44	1 above.	3	3	2 less.	24	28
	8. ENGLAND, S.W.	58	33	51	41	46	1 above.	2	1	6 less.	39	47
	9. IRELAND, N.	57	28	51	39	45	3 above.	3	4	0 (average).	22	26
	10. IRELAND, S.	58	29	52	41	47	3 above.	3	1	6 less.	17	20

General Remarks.

Weather has been much finer than of late in all parts of the Kingdom, although slight showers of rain, snow, or hail occurred during the last two or three days. A thunderstorm occurred in the Isle of Man and at Barrow-in-Furness during the afternoon of the 21st.

Temperature was slightly above the mean in all districts. Over the greater part of England the maxima were above 60°, the highest reading reported being 63°, registered at Nottingham on the 17th. The thermometer was generally lowest on the 21st, when it fell to 17° at Glenalmond, to 22° at Durham, and to 32° or below at nearly all our northern and north-western stations. Over the southern districts, however, the minima occurred on the 16th.

Rainfall was less than the mean in all districts excepting "Scotland, E." and "Ireland, N."

Bright sunshine shows a great increase in duration nearly everywhere, the percentages varying from 20 in "Ireland, S." to 33 in "Scotland, W.," and to 52 in "England E."

Depressions observed.—On the 18th a large and deep depression was shown over Norway, and caused westerly gales and fresh or strong winds at all our northern stations, and during the remainder of the period numerous depressions, generally very slight, travelled from N.W. to S.E. across our Islands and the North Sea, giving us fresh, and in some places strong, north-westerly or northerly winds with showers of snow, sleet, or cold rain.

Q 5707. 100.—3/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 21, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 15.

Weather dull and wet in S. France and cloudy in N. Scandinavia, but fine and bright elsewhere. Sky clouding over in Ireland later, but remaining clear generally.

Temperature fallen except in Norway and Denmark; readings ranging over these Islands from 47° at Scilly to 31° at Parsonstown and 32° at Leith. Thermometer rising rather briskly during day and maxima between 45° and 55°.

Wind variable; southerly over the eastern shores of the North Sea and Scotland, easterly over the Netherlands and E. of England, and northerly on our western coasts and over France. South-westerly wind springing up in Ireland later.

Sea rough at Scilly and Skudesnaes.

Barometer risen over the whole of western Europe but falling in N. Norway. High pressures shown over N. Germany and Ireland, and low pressures to the northward of Scotland and over France. Mercury rising all day, little change of distribution.

Wednesday, March 16.

Weather fine and bright in nearly all places but cloudy in Ireland, and foggy over central England. Fog very dense in London during morning, but weather very fine in afternoon.

Temperature fallen over eastern and central England, risen elsewhere; readings ranging from 48° at Valentia to 31° at York. Thermometer rising fast during day and reaching 61° in London.

Wind south-westerly over Ireland, Scotland, and Scandinavia, light and variable elsewhere; blowing a gale in Norway. Scarcely any change occurring later.

Sea rough off the W. of Norway.

Barometer rising in the southern and falling in the northern half of our area; slight gradients existing over Scotland, Norway, and Sweden, but readings high and uniform in the S. Pressure changing very little during the day.

Thursday, March 17.

Weather cloudy on our extreme western coasts and variable over Scandinavia, fine and bright elsewhere; some mist in the S. Cloudy weather spreading a little, but not much other change.

Temperature risen in nearly all places; readings ranging from 50° at Valentia and 51° at Leith, to 35° in London. Thermometer rising fast during day, maxima exceeding 60° at Nottingham and in London.

Wind westerly on nearly all our coasts, and north-easterly in France; light in force generally, but blowing a gale in Norway. Wind backing to S.W. in Ireland later, but westerly breezes holding elsewhere. Wind rising at Wick in evening.

Sea slight except on Norwegian coast.

Barometer rising except in parts of Sweden; area of high pressure (30·5 ins.) over England and Ireland. Mercury falling fast in Scotland later, little other change; gradients increasing.

Friday, March 18.

Weather fine in the S. and over France, cloudy or dull elsewhere; very little change during day; sky remaining overcast except in the S.

Temperature risen in the E., fallen at most western stations; readings ranging from 50° in Scotland to 40° at Oxford. Thermometer rising briskly in S.E. later, but little other change. Maximum 61° in London.

Wind westerly over nearly the whole of these Islands and the North Sea, but drawing into S.W. and S. over Scandinavia. Blowing freshly or strongly on all but our southern coasts, and reaching a gale at Christiansund. Strong westerly gale reported from our northern coasts during day.

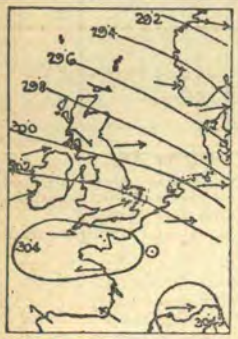
Sea rough in the N.W.

Barometer falling except in France; quickly in Scotland, and rapidly in Norway. Large depression approaching N. Norway, while anticyclone of 30·6 ins. shown on our S.W. coasts. Mercury falling all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 19.

Weather fine in the S.E. and over France, dull elsewhere with rain in the N.W. No change during day, sky remaining clear in S.E., and overcast elsewhere.

Temperature falling except in the S. of England,—change considerable in Scotland; readings ranging from 49° in S.W. to 39° at Wick. Thermometer falling fast in N. at night. Maxima between 50° and 60° generally, but between 45° and 50° in the N. and N.W.

Wind easterly over France, westerly on all other coasts; fresh in force over the British Isles, and strong to a gale to the eastward of the North Sea. Veering to N. and N.W. in the N. later, and falling lighter.

Sea rough on our own western coasts, and in W. Norway.

Barometer falling in all places, except the N. of Scandinavia. Anticyclone shown over our S.W. coasts, and deep depression over Lapland. Mercury falling all day, except in N.

Sunday, March 20.

Weather fine in S. of Scandinavia and parts of the S.E. of England and S. of France; cloudy or dull generally. Snow falling at Leith. Rather cloudy and unsettled all day; snow falling in Scotland, and rain over England and Ireland.

Temperature fallen in nearly all places, very quickly in the N.E., and readings ranging from 49° in the S.W. to 31° at Wick. Maxima between 50° and 55° in the S. and S.W., between 40° and 47° elsewhere.

Wind northerly in our northern and westerly in our southern districts, but easterly over France. Moderate or light in force generally. Little change during the day.

Sea rough on the W. coast of Ireland.

Barometer fallen generally, most in the S.W. Pressure still highest in the S.W. and S., and lowest over Sweden. Pressure giving way all day, and small subsidiary disturbance appearing over N. Scotland.

Monday, March 21.

Weather fine at most of our stations, but dull on the Continent and over the S. of England, and snow falling at Ardrossan and Aberdeen. Cloudy all day, with occasional sharp showers of snow.

Temperature fallen several degrees except in the N.W. of France; readings low, ranging from 47° at Scilly to 27° at Nairn. Maxima below 40° in the N., and below 50° generally; sharp frost in E. and N. at night.

Wind north-westerly on our coasts and over the North Sea, westerly in France; moderate in force generally. Not changing much in direction during day, but increasing in force and blowing a gale in N.W.

Sea rough on the N. coast of Ireland.

Barometer falling everywhere; readings highest over N. Spain, lowest over N. Scandinavia, with several small depressions travelling south-eastward across us. Mercury rising except in S.E. later, and depression passing down our E. coast.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	57	25	47·6	34·4	41·0	+1·5	4	0·20	−0·14	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	53	43	50·7	44·7	47·2	−0·3	1	0·02	−0·45	*	*
	Jersey (Noirmont)	60	42	53·7	44·1	48·9	+3·9	1	0·02	−0·73	45	54

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	56	26	47·3	37·4	42·4	+ 2·9	5	0·87	+0 57	*	*
	Aberdeen	59	27	49·1	33·3	41·2	+ 0·6	6	0·58	+0·16	35	42
	Glenalmond	49	17	47·5	28·2	37·9	− 2·3	2	0·07	?	30	36
	Leith	57	28	50·3	35·6	43·0	+ 2·1	4	0·35	+0·09	*	*
2. ENGLAND, N.E.	Alnwick Castle	54	23	47·4	35·0	41·2	+ 0·2	3	0·14	?	*	*
	Shields	56	27	48·7	35·9	42·3	+ 1·3	2	0·09	−0·26	*	*
	Durham	62	22	52·2	33·6	42·9	+ 1·9	2	0·19	−0·23	24	29
	York	57	28	51·3	35·6	43·5	+ 2·4	3	0·12	−0·24	26	31
	Spurn Head	51	33	47·3	37·7	42·5	+ 1·0	3	0·05	?	*	*
	Kelstern (Lincolnsh.) ℳ	59	27	49·8	33·6	41·7	− 0·1	2	0·19	−0·25	39	47
3. ENGLAND, E.	Hillington ℳ	59	26	54·2	33·4	43·8	+ 1·8	3	0·19	−0·33	39	47
	Yarmouth	57	35	49·4	38·0	43·7	+ 1·6	2	0·20	−0·20	*	*
	Geldeston	61	28	54·8	35·0	44·9	+ 2·5	2	0·08	−0·30	50	60
	Cambridge	61	28	57·3	33·1	45·2	+ 3·1	2	0·11	−0·20	41	49
	Rothamsted	59	29	54·5	34·5	44·5	+ 2·0	2	0·10	−0·20	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	28	52·6	36·1	44·4	+ 2·6	1	0·05	−0·28	*	*
	Nottingham	63	28	55·6	34·6	45·1	+ 3·0	2	0·06	−0·35	*	*
	Loughborough	62	29	54·8	36·9	45·9	+ 3·9	2	0·07	−0·33	*	*
	Leicester	58	30	53·2	36·0	44·6	+ 2·6	2	0·13	−0·23	32	39
	Birmingham (Oscott)	60	30	53·0	35·6	44·3	+ 1·8	2	0·21	−0·30	*	*
	Cheadle ℳ	57	29	50·5	34·9	42·7	− 0·6	3	0·06	?	*	*
	Churchstoke ℳ	58	28	50·9	35·1	43·0	0·0	1	0·11	?	38	46
	Hereford ℳ	62	32	55·7	37·6	46·7	+ 3·7	1	0·03	−0·35	*	*
	Cirencester	60	30	53·2	35·1	44·2	+ 1·3	1	0·05	−0·40	42	51
	Oxford	59	32	54·0	36·4	45·2	+ 2·3	1	0·01	−0·39	39	47
5. ENGLAND, S.	London†	61	32	56·6	36·1	46·4	+ 3·4	2	0·06	−0·29	23	28
	Marlborough ℳ	61	31	54·2	34·7	44·5	+ 1·3	2	0·05	−0·40	*	*
	Strathfield Turgiss ℳ	62	30	56·3	34·6	45·5	+ 2·3	2	0·04	−0·30	*	*
	Dover	52	36	49·1	39·1	44·1	+ 1·1	2	0·10	−0·36	*	*
	Hastings (St. Leonard's)	57	33	51·6	39·8	45·7	+ 1·7	2	0·18	−0·26	*	*
	Southampton	62	34	56·7	37·9	47·3	+ 3·6	2	0·04	?	45	54
	Hurst Castle	57	36	52·6	40·0	46·3	+ 2·4	1	0·05	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)										*	*
	Glasgow	52	28	47·3	37·0	42·2	+ 1·5	4	0·34	−0·16	21	25
	Ardrossan	52	29	47·6	37·4	42·5	+ 1·3	4	0·57	+0·06	*	*
	Silloth (Cumberland)	55	28	48·0	36·5	42·3	+ 0·7	5	0·33	−0·07	26	31
	Douglas (Isle of Man)	55	30	50·0	38·7	44·4	+ 1·5	3	0·27	−0·33	35	42
7. ENGLAND, N.W.	Barrow-in-Furness	53	33	47·9	38·7	43·3	+ 1·3	4	0·40	?	*	*
	Stonyhurst	52	30	47·5	38·7	43·1	+ 1·1	4	0·19	−0·52	26	31
	Blackpool ℳ	50	32	46·2	39·0	42·6	+ 0·1	3	0·27	−0·18	*	*
	Manchester	54	30	49·9	36·6	43·3	+ 1·3	3	0·26	−0·22	*	*
	Liverpool Obsy (Bidston)	55	36	49·3	41·0	45·2	+ 2·5	3	0·50	+0·18	*	*
	Llandudno ℳ	56	31	50·3	40·3	45·3	+ 1·9	2	0·43	+0·03	21	25
	Holyhead	52	36	48·0	41·7	44·9	+ 1·4	2	0 22	−0·25	*	*
8. ENGLAND, S.W.	Pembroke	51	39	47·7	41·0	44·4	− 0·5	2	0·06	−0·54	33	40
	Arlington (N. Devon)	56	33	49·9	37·3	43·6	− 0·5	3	0·14	?	*	*
	Falmouth	55	39	51·5	41·7	46·6	+ 0·6	2	0·05	−0·60	44	53
	Plymouth	58	36	54·5	40·2	47·4	+ 2·5	1	0·01	−0·61	*	*
	Prawle Point	57	40	52·6	42·0	47·3	+ 2·4	1	0·02	?	*	*
9. IRELAND, N.	Londonderry	56	31	50·2	39·2	44·7	+ 2·7	4	0·71	+0·14	*	*
	Mullaghmore	55	? 31	50·3	42·0	46·2	+ 3·5	4	0·56	?	*	*
	Markree Castle	56	28	51·6	38·7	45·2	+ 2·5	3	0·37	−0·30	23	28
	Brookeborough	57	29	50·7	37·1	43·9	+ 1·3	3	0·31	?	*	*
	Armagh	57	30	50·9	39·7	45·3	+ 2·5	3	0·47	+0·07	20	24
	Donaghadee	56	31	50·1	39·0	44·6	+ 2·4	3	0·26	?	*	*
10. IRELAND, S.	Dublin	55	33	51·1	41·0	46·1	+ 3·1	2	0·05	−0·37	21	25
	Parsonstown	56	29	51·1	38·6	44·9	+ 2·0	2	0·10	−0·55	16	19
	Waterford	58	34	53·9	40·1	47·0	+ 3·1	2	0·05	−0·65	*	*
	Roche's Point	55	38	53·0	42·3	47·7	+ 2·7	2	0·11	−0·69	*	*
	Valentia	55	35	52·0	42·4	47·2	+ 2·2	3	0·10	−0·82	14	17
	Foynes	57	35	50·4	43·5	47·0	+ 3·2	4	0·12	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 12.] WEEK ENDING MONDAY, MARCH 28, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Glenalmond, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Kelstern (Lincolnshire).
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	?54	17	42	29	35	6 below.	4	5	1 more.	35	40
	2. ENGLAND, N.E.	50	23	44	30	37	6 below.	4	3	1 less.	35	40
	3. ENGLAND, E.	50	21	44	30	37	6 below.	3	3	1 less.	30	35
	4. MID. COUNTIES	52	21	45	29	37	7 below.	3	2	2 less.	38	44
	5. ENGLAND, S.	51	22	47	32	39	5 below.	4	6	1 more.	36	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	49	26	43	31	37	6 below.	4	9	3 more.	28	32
	7. ENGLAND, N.W.	52	22	43	31	37	7 below.	4	7	2 more.	26	30
	8. ENGLAND, S.W.	52	29	47	35	41	5 below.	3	7	2 more.	48	56
	9. IRELAND, N.	54	21	45	31	38	5 below.	5	7	2 more.	41	47
	10. IRELAND, S.	54	23	48	35	41	4 below.	3	7	1 more.	40	46

General Remarks.

Weather has been moderately clear generally, but some snow or cold rain has fallen in all districts.

Temperature has been much below the mean in all parts of the Kingdom, the deficit ranging from 4° to 7°. The lowest reading recorded was 17° and was registered at Nairn on the 22nd. In most places, however, the readings were lowest during the last two or three days of the period when the thermometer fell to between 21° and 25° at nearly all our central, eastern, and southern stations, as well as over central Ireland.

Rainfall was slightly less than the mean in "England, E.," "England, N.E.," and the "Midland Counties," but slightly more elsewhere.

Bright sunshine was more prevalent in "England, S.W." and over Ireland than in other parts of the Kingdom, but in no district was it deficient. The percentages varied from 30 in "England, N.W." to 56 in "England, S.W."

Depressions observed.—No. 1 was rather deep, and advanced from the south-westward, and at 8 A.M. on the 24th was off the N.E. of Scotland; by the 26th it had disappeared from our neighbourhood. It caused southerly to south-westerly gales or strong winds in all parts of the Kingdom, which subsequently veered to W. or N.W. still blowing strongly. No. 2 passed from W. to E. to the northward of Scotland on the 27th, and caused strong westerly winds at our extreme northern stations. During the latter part of the week an area of low pressure existed over France, so that at all our more southern stations moderate or light easterly breezes were experienced.

Q 5832. 100.—3/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending March 28, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 22.

Weather fine at the majority of stations but rather unsettled, and snow falling on our N.W. coasts and at Oxford. Snow in London, at Dover, and on our N.E. coasts later, but weather fine in S.E. in the evening.

Temperature fallen except in Ireland and the W. of Norway—briskly in N. France; readings ranging from 43° in the S.W. to 22° at Nairn. Maxima during day low generally and frost again experienced in N. at night.

Wind north-westerly and northerly on all our own and the French coasts, but westerly in Scandinavia. Blowing strongly in the N.W. and over the Straits of Dover, moderate or light generally. Wind backing to S. in Ireland later.

Sea rough off the W. of Ireland and on some parts of our E. coast.

Barometer rising in nearly all places but steady in extreme W. Pressure highest over the Bay of Biscay, lowest over N. Norway, with depression over North Wales and a second over the Netherlands. Mercury falling at Valentia later.

Wednesday, March 23.

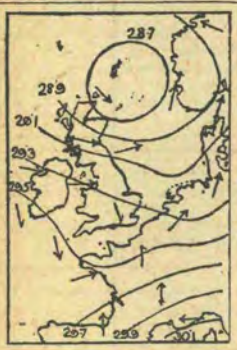
Weather unsettled; fine in the S.E. and over Denmark and N. Germany, dull elsewhere, rain falling in the W. Rain extending to all parts of the Kingdom later, but improvement taking place in N. Ireland at night.

Temperature risen rather briskly in nearly all places except the S. of France; readings ranging from 50° at Valentia to 29° at Nairn. Maxima below 40° in the N., between 40° and 50° in most places, but above 50° in the S.W.

Wind south-easterly over the Bay of Biscay, southerly on nearly all our coasts, and westerly in Scandinavia. Blowing a moderate gale in S.W. Moderate or fresh gale experienced generally later, but wind shifting to N. in Ireland.

Sea rough in S.W., W., and N.

Barometer risen over the countries to the eastward of the North Sea and the E. of France, fallen quickly elsewhere, large depression off our S.W. coasts. Depression passing across Ireland and Scotland later, and recovery commencing in W.



Thursday, March 24.

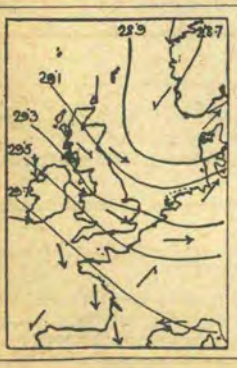
Weather fine in the northern and eastern districts of Great Britain, dull elsewhere, with hail in N. Ireland and rain over France, the Channel, and the eastern shores of the North Sea. Showers in most places during the day, but fine in S.E. at night.

Temperature risen except in Ireland,—quickly in Netherlands; readings ranging rrom 47° at Scilly to 35° in Caithness. Maxima between 40° and 50°, and slight frost in N. and E. at night.

Wind north-westerly and westerly over these Islands and France, southerly on the eastern shores of the North Sea, and south-easterly in N. Norway. Blowing freshly or strongly generally. Westerly winds experienced all day, blowing strong gale in N.

Sea rough at several exposed parts of the coast.

Barometer rising on our W. and S.W. coasts, falling elsewhere,—rapidly in Scotland and Norway. Deep depression between the Orkneys and the coast of Norway. Depression passing eastward later, and mercury rising in W. and S.



Friday, March 25.

Weather varying considerably, but rather cloudy generally, snow showers reported from Aberdeen, Donaghadee, and Yarmouth. Fine bright weather all day in the E. & S.E., cloudy and showery in the W.

Temperature fallen except in Scotland, readings ranging from 48° at Scilly to 34° at Parsonstown, and 35° at Yarmouth. Maxima between 38° and 48° only, and sharp frost in most places at night.

Wind northerly in Scotland and north-westerly to westerly over Ireland, England, and France, and south-westerly in Denmark. Strong in force on nearly all coasts. Strong north-westerly winds on all coasts all day.

Sea rough in the W., S., and N.

Barometer falling fast in Sweden, rising over the whole of western Europe,—briskly in Scotland. Readings highest over the Bay of Biscay. Mercury rising all day. No change in distribution.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, March 26.

Weather fine over the greater part of these Islands, but cloudy or dull on the Continent. Snow falling, however, in the N.E. of Scotland and at Yarmouth. Little change during day; snow showers continuing in Scotland.

Temperature fallen nearly everywhere; readings low, ranging from 42° at Scilly to 30° at Nairn. Maxima between 39° and 49°, and sharp frost again experienced in east and north at night.

Wind northerly in nearly all parts of western Europe, but more variable over France. Blowing rather strongly in Denmark and N. Germany, but moderate or light elsewhere. Light northerly breezes all day.

Sea rough on the N. coast of Ireland, and at the mouth of the Humber.

Barometer rising everywhere, very quickly in the N. and E., but slightly in the W. Readings highest in Ireland lowest in Sweden. Mercury rising slowly all day, readings very uniform over the British Isles.

Sunday, March 27.

Weather fine over nearly the whole of the British Isles as well as the N. and E. of France and N. Germany, cloudy in N. Scotland. Weather fine generally all day, but slight snow in N. Scotland, and slight rain in N.W. France.

Temperature fallen over central England and W. France, risen in most other places; readings ranging from 45° at Scilly to 31° at Cambridge. Maxima during day between 40° and 48° and frost at inland stations at night.

Wind westerly and south-westerly over Scotland and Scandinavia, easterly over England, Ireland, and France. Blowing strongly over the Bay of Biscay and W. of Norway; light or moderate elsewhere. Both easterly and westerly currents increasing in force during day.

Sea moderate or slight, except at Valentia.

Barometer falling over France, and decrease spreading to our S.W. coasts, but rising elsewhere—quickly over Denmark. Area of high pressure lying over England and N. Germany, with depressions in Norway and France. Mercury falling during day, and gradients becoming steeper.

Monday, March 28.

Weather again fine over nearly the whole of these Islands, the N.E. of France, and N. Germany, but dull with showers in N.W. France, and with snow in Scotland and Norway. Weather fine in nearly all districts in the evening.

Temperature changed irregularly; readings ranging from 45° at Scilly to 27° at Parsonstown, and 32° over central England. Maxima generally between 40° and 50°; sharp frost in eastern and central districts at night.

Wind westerly on our northern and easterly on our southern coasts, and light or moderate in force, but strong to a gale from S.W. in Scandinavia. Scarcely any change during day.

Sea rough in the Skager Rack.

Barometer rising on our western and northern coasts as well as in the S. and E. of France, falling in most other places, but changes everywhere slight. Band of high pressure stretching across Ireland, England, and North Sea. Mercury falling slowly all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	45	18	38·7	26·6	32·7	−7·6	7	0·96	+0·63	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	51	37	48·7	40·7	44·7	+1·3	5	1·17	+0·71	•	•
	Jersey (Noirmont)	51	34	47·6	37·9	42·8	−3·0	5	1·19	+0·47	27	31

The above observations made in "Scotland, N." and the "Channel Islands," are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	44	17	39·3	27·0	33·2	− 7·6	4	0·49	+0·19	*	*
	Aberdeen	48	18	41·9	28·3	35·1	− 6·1	5	0·46	+0·04	37	43
	Glenalmond	? 54	20	43·4	29·0	36·2	− 4·9	4	0·45	?	32	37
	Leith	49	24	44 1	30·3	37·2	− 4·2	4	0·38	+0·13	*	*
2. ENGLAND, N.E.	Alnwick Castle	48	25	41·0	29·9	35·5	− 6·5	5	0·52	?	*	*
	Shields	50	23	43·0	28·6	35·8	− 6·1	5	0·38	+0·03	*	*
	Durham	50	23	44·7	28·4	36·6	− 5·4	4	0·34	−0·06	35	40
	York	51	25	45·6	29·3	37·5	− 5·0	4	0·21	−0·14	35	40
	Spurn Head	45	31	43·0	33·0	38·0	− 4·8	3	0·17	?	*	*
	Kelstern (Lincolnsh.) ℳ											
3. ENGLAND, E.	Hillington ℳ	49	23	44·8	28·7	37·3	− 5·0	3	0·59	+0·25	25	29
	Yarmouth	47	29	42·0	31·9	37·0	− 5·3	5	0·25	−0·15	*	*
	Geldeston	48	25	44·0	30·8	37·4	− 6·3	3	0·29	−0·07	34	40
	Cambridge	50	21	46·0	27·4	36·7	− 5·7	2	0·06	−0·24	32	37
	Rothamsted	47	23	43·8	28·9	36·4	− 7·1	4	0·28	−0·11	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	27	45·3	31·6	38·4	− 4·8	3	0·36	+0·01	*	*
	Nottingham	51	24	46·3	29·4	37·9	− 5·3	5	0·24	−0·21	*	*
	Loughborough	52	23	45·5	30·5	38·0	− 5·0	3	0·14	−0·26	*	*
	Leicester	48	25	43·7	30·2	37·0	− 6·2	4	0·15	−0·20	25	29
	Birmingham (Oscott)	49	25	44·5	29·3	36·9	− 6·9	3	0·06	−0·44	*	*
	Cheadle ℳ	47	26	42·0	29·3	35·7	− 8·0	4	0·27	?	*	*
	Churchstoke ℳ	47	21	43·4	27·0	35·2	− 9·4	4	0·21	?	35	40
	Hereford ℳ	49	22	45·8	28·8	37·3	− 7·2	2	0·10	−0·25	*	*
	Cirencester	49	22	45·8	27·8	36·8	− 7·5	2	0·15	−0·30	47	55
	Oxford	49	25	46·4	29·4	37·9	− 5·9	3	0·19	−0·19	44	51
5. ENGLAND, S.	London†	50	25	48·0	31·1	39·6	− 3·9	3	0·36	+0·02	29	34
	Marlborough ℳ	51	25	46·5	29·1	37·8	− 6·7	3	0·31	−0·13	*	*
	Strathfield Turgiss ℳ	51	22	48·3	29·2	38·8	− 5·8	3	0·19	−0·16	*	*
	Dover	49	31	45·1	34·1	38·6	− 5·4	5	0·91	+0·46	*	*
	Hastings (St. Leonard's)	49	31	46·4	33·8	40·1	− 4·9	5	0·92	+0·47	*	*
	Southampton	51	29	48·2	32·6	40·4	− 4·6	5	0·53	?	43	50
	Hurst Castle	48	31	46·4	34·7	40·6	− 4·4	4	0·64	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	48	27	40·5	31·6	36·1	− 5·8	5	1·41	?	*	*
	Glasgow	46	26	41·3	30·3	35·8	− 6·2	4	0·74	+0·24	18	21
	Ardrossan	47	27	43·3	32·1	37·7	− 4·3	5	1·04	+0·54	*	*
	Silloth (Cumberland)	49	26	44·5	30·2	37·4	− 5·3	3	0·43	+0·04	30	34
	Douglas (Isle of Man)	47	26	43·2	30·2	36·7	− 5·9	4	0·85	+0·29	36	41
7. ENGLAND, N.W.	Barrow-in-Furness	48	27	45·3	31·3	38·3	− 6·0	4	1·18	?	*	*
	Stonyhurst	44	22	41·1	28·6	34·9	− 8·1	4	1·21	+0·54	29	33
	Blackpool ℳ	45	25	42·1	31·2	36·7	− 7·1	4	0·64	+0·23	*	*
	Manchester	46	27	41·9	30·2	36·1	− 6·9	5	0·79	+0·30	*	*
	Liverpool Obs' (Bidston)	48	30	43·0	32·4	37·7	− 6·0	4	0·31	0·00	*	*
	Llandudno ℳ	52	30	45·3	32·9	39·1	− 5·4	2	0·10	−0·30	22	26
	Holyhead	46	27	42·7	33·1	37·9	− 6·2	3	0·66	+0·21	*	*
8. ENGLAND, S.W.	Pembroke	47	32	44·7	35·1	39·9	− 6·2	5	0·46	−0·14	50	58
	Arlington (N. Devon)	49	29	45·3	32·1	38·7	− 6·7	4	0·70	?	*	*
	Falmouth	51	36	47·0	39·1	43·1	− 3·9	4	1·02	+0·42	46	53
	Plymouth	52	32	49·7	35·3	42·5	− 3·5	2	1·01	+0·41	*	*
	Prawle Point	50	30	46·9	34·4	40·7	− 5·1	1	0·50	?	*	*
9. IRELAND, N.	Londonderry	54	27	46·1	30·5	38·3	− 5·1	6	0·75	+0·19	*	*
	Mullaghmore	49	31	45·3	34·4	39·9	− 3·6	5	0·60	?	*	*
	Markree Castle	50	21	46·4	29·7	38·1	− 5·8	6	0·84	+0·28	44	51
	Brookeborough	52	24	45·7	29·9	37·8	− 5·8	5	0·97	?	*	*
	Armagh	48	27	43·8	30·5	37·2	− 6·7	4	0·54	+0·14	37	43
	Donaghadee	50	27	44·4	31·1	37·8	− 5·7	4	0·62	?	*	*
10. IRELAND, S.	Dublin	52	28	45·2	32·8	39·0	− 5·0	3	0·09	−0·40	45	52
	Parsonstown	52	23	47·0	31·4	39·2	− 4·6	4	0·62	+0·08	37	43
	Waterford										*	*
	Roche's Point	52	33	47·7	36·4	42·1	− 3·9	3	0·72	−0·03	*	*
	Valentia	54	33	50·0	38·0	44·0	− 1·6	4	1·49	+0·59	38	44
	Foynes	53	32	48·2	35·0	41·6	− 3·3	3	0·60	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.
For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 13.] WEEK ENDING MONDAY, APRIL 4, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	23	43	28	36	7 below.	2	1	3 less.	42	46
	2. ENGLAND, N.E.	50	22	41	30	35	9 below.	2	less than ½	3 less.	40	44
	3. ENGLAND, E.	55	22	46	30	38	7 below.	1	less than ½	5 less.	59	65
	4. MID. COUNTIES	56	21	46	28	37	8 below.	0	—	4 less.	61	68
	5. ENGLAND, S.	55	23	48	33	41	6 below.	0	—	4 less.	63	70
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	50	22	44	29	36	7 below.	0	—	5 less.	61	68
	7. ENGLAND, N.W.	54	23	44	29	37	8 below.	1	less than ½	4 less.	52	57
	8. ENGLAND, S.W.	55	28	48	34	41	6 below.	1	1	6 less.	61	68
	9. IRELAND, N.	53	19	45	30	38	8 below.	0	—	4 less.	65	73
	10. IRELAND, S.	56	20	49	31	40	6 below.	0	—	7 less.	68	75

General Remarks.

Weather has been very cold and dry, but exceedingly bright in all parts of the Kingdom except the extreme N. of Scotland.

Temperature has again been much below the mean in all districts, the deficit ranging from 6° in the S. and S.W., to 7° to 9° elsewhere. The nights were very cold, the thermometer falling to 19° or 20° over central Ireland, and to 21°, 22°, or 23° over the greater part of England and Scotland. The maxima were nowhere high, ranging from 55° or 56° in the S. and S.W., to 50° at the northern stations.

Rainfall was much less than the mean in all districts, and at the great majority of stations none whatever was collected.

Bright sunshine has been very prevalent, and in some places was almost continuous during the whole of the time the sun was above the horizon. The percentages varied from 75 in "Ireland, S." and 70 in "England, S.," to 44 in "England, N.E."

Depressions observed.—Pressure has been comparatively high over our Islands, while depressions have existed both over Scandinavia and over the Bay of Biscay. Easterly winds have thus prevailed at all except our most northern stations, and have been fresh or strong in force on all coasts, and over the Channel and S. of England blew a fresh or strong gale on Saturday and Sunday.

Q 5931. 100.—4/81. Wt. 26. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 4, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, March 29.

Weather showing considerable variations; generally fine in the E. and S.W., cloudy elsewhere. Snow falling at Wick, Ardrossan, and Shields. Weather snowy in N. Scotland later, very fine elsewhere.

Temperature fallen at most of the eastern stations; ranging from 46° at Scilly to 27° at Wick. Maxima between 45° and 55° generally, but below 40° in N., and sharp frost reported from northern, eastern, and central districts at night.

Wind northerly on nearly all our coasts, but drawing into E. over France, and into W. over the countries to the eastward of the North Sea. Moderate or light except in S. Norway. Strong northerly winds springing up in the W. and N.E. later.

Sea slight.

Barometer rising in Scotland, falling elsewhere. Pressure highest over our W. coasts, and lowest over N. Spain and N. Scandinavia. Barometer rising everywhere during day.

Wednesday, March 30.

Weather fine over the greater part of western Europe, but dull at Scilly as well as over the W. of France and at most Scandinavian stations. Weather fine all day except in extreme S.W.

Temperature fallen several degrees in most places; readings ranging from 42° at Scilly to 27° at Barrow. Maxima between 37° and 47° over these Islands, and sharp frost occurring at night.

Wind north-westerly to northerly over Scandinavia and the North Sea, but easterly over France and our S.W. and W. coasts. Wind blowing strongly in S.W. and over Norway and Denmark. Easterly wind reaching a gale at Scilly.

Sea rough in S.W. and N.E.

Barometer rising in all places except the S. of France. Readings highest over our N.W. stations, and lowest over Lapland and over Spain. Slight fall occurring over Ireland and Scotland later; no other change of importance.

Thursday, March 31.

Weather still very fine over the greater part of the country, but cloudy in Scotland and on our S.W. coasts. Snow falling in S. Norway. Very fine and bright all day except N. Scotland.

Temperature risen slightly; readings ranging from 45° at Scilly to 29° at York. Maxima between 40° and 50°, and slight frost again experienced in N. and E.

Wind westerly on our northern coasts and over Scandinavia, easterly in the S. and blowing a gale at Scilly. Strong easterly winds and gales all day in the south.

Sea rough to high in S.W.

Barometer falling over these Islands and the W. of France, but rising in most other parts of the Continent. Band of high pressure stretching from N. Ireland across North Sea to N. Germany, with depressions over Spain and Lapland. Mercury falling all day.

Friday, April 1.

Weather little changed, still fine over greater part of the country but sleet falling in N. Scotland, and sky overcast at Scilly and in W. France. No change later except thunderstorm at Rochefort.

Temperature fallen over Scandinavia, risen slightly over these Islands and briskly over France; ranging from 44° at Scilly to 34° at Leith. Maxima varying between 35° at Wick and 56° at Oxford. Frost in N. at night.

Wind easterly on nearly all our coasts and over the N. of France, blowing freshly generally and a gale over the Channel. Southerly to south-westerly breezes in the S.W. of France. Easterly winds holding all day.

Sea rough in S.E. and S.

Barometer rising slightly in N., falling in S. Large area of high pressure lying over Scotland, the North Sea, and S. Scandinavia, with depression still over Bay of Biscay. Mercury rising in N. and falling in S. all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 2.

Weather still fine over N. Germany and on our W. coasts, more cloudy than of late elsewhere. Snow falling at Aberdeen. Weather rather cloudy all day, except in the S.E. and in Ireland. No rain.

Temperature changed irregularly, but fallen on our E. coast and over Scandinavia; ranging from 44° at Scilly to 32° in Scotland. Maxima ranging from 35° at Wick to 55° at Valentia. Frost in E. and N. at night.

Wind still southerly in S.W. France, and easterly elsewhere. Strong in force, except over Scotland, and blowing a gale in the Channel. Strong easterly winds and gales all day.

Sea rough, except on the Scotch coasts.

Barometer rising in all parts of western Europe. Distribution unchanged; area of high pressure lying over Caithness, and of low pressure over Bay of Biscay. Mercury rising all day.

Sunday, April 3.

Weather still very fine except over France, the extreme N. of Scotland, and Norway. Slight rain falling at Aberdeen later, but very fine weather prevailing all day elsewhere.

Temperature fallen at nearly all stations, and readings ranging from 38° at Scilly and Dover to 28° at Nairn. Maxima between 40° and 50° generally, and frost again experienced in N. and E. later.

Wind little changed, still blowing from S. in S. France and from E. in the N. of that country and over these Islands. Fresh to strong gale prevailing in the Channel. Gale holding all day.

Sea very rough except on the Scotch coasts.

Barometer falling somewhat in N. Scotland and S. Norway, rising elsewhere. Anticyclone lying over Scotland with well marked depression over Bay of Biscay. Barometer falling in N. and rising in S. during day.

Monday, April 4.

Weather cloudy over Norway, Scotland, and France, fine elsewhere; rain falling at Paris. Fine all day over England, Ireland, and the E. of Scotland, cloudy elsewhere; rain falling over France.

Temperature risen briskly in Scotland, hardly changed elsewhere; readings ranging from 41° in London and at Wick to 31° at Shields. Maxima again between 40° and 50°, and slight frost reported in E. and N. at night.

Wind westerly in Scotland and Scandinavia, easterly over the southern part of our area; still strong in Channel. Gale reported from Scilly later, little other change.

Sea very rough except in the N.

Barometer falling slowly on our W. and N. coasts and in N. Norway, rising a little elsewhere. Anticyclone lying over North Sea with depressions over Spain and over Norway. Mercury falling all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	49	22	40·0	27·3	33·7	−8·1	4	0·63	+0·26	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	50	36	48·0	40·3	44·2	−5·2	0	—	−0·45	*	*
	Jersey (Noirmont)	49	36	47·1	39·4	43·3	−4·7	1	0·09	−0·57	37	42

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	48	24	41·0	27·9	34·5	− 7·8	2	0·04	−0·26	*	*
	Aberdeen	50	23	44·1	27·9	36·0	− 6·3	5	0·12	−0·33	42	46
	Leith	49	25	43·4	28·9	36·2	− 6·7	0	—	−0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	42	24	38·0	28·4	33·2	−10·0	2	0·04	?	*	*
	Shields	44	26	39·3	29·6	34·5	− 8·8	2	0·05	−0·32	*	*
	Durham											
	York	50	22	43·6	27·3	35·5	− 8·4	1	0·07	−0·32	40	44
	Spurn Head	43	32	40·9	34·0	37·5	− 6·9	1	0·01	?	*	*
3. ENGLAND, E.	Hillington ℳ	51	24	46·1	28·5	37·3	− 7·4	0	—	−0·28	49	54
	Yarmouth	47	28	41·3	33·1	37·2	− 7·6	0	—	−0·40	*	*
	Geldeston	53	24	44·4	32·0	38·2	− 7·0	1	0·01	−0·34	68	76
	Cambridge	55	22	49·1	27·0	38·1	− 7·0	0	—	−0·30		
	Rothamsted	?52	?24	?46·7	?28·5	?37·6	−?7·5	1	0·01	−0·38	?	?
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	22	44·1	28·4	36·3	− 8·4	1	0·04	−0·31	*	*
	Nottingham	51	25	46·1	28·7	37·4	− 7·5	0	—	−0·43	*	*
	Loughborough	52	24	47·0	28·3	37·7	− 6·9	0	—	−0·39	*	*
	Leicester	50	24	45·1	27·5	36·3	− 8·7	0	—	−0·31	47	52
	Birmingham (Oscott)	52	22	46·3	26·0	36·2	− 9·4	0	—	−0·47	*	*
	Cheadle ℳ	48	24	43·6	27·3	35·5	−10·0	0	—	?	*	*
	Churchstoke ℳ	51	23	45·4	26·4	35·9	−10·5	0	—	?	57	63
	Hereford ℳ	54	22	47·7	28·4	38·1	− 7·0	0	—	−0·35	*	*
	Cirencester	54	21	48·9	28·0	38·5	− 7·5	0	—	−0·45	70	78
	Oxford	56	25	49·0	29·0	39·0	− 6·5	0	—	−0·35	70	78
5. ENGLAND, S.	London†	55	28	49·4	32·0	40·7	− 5·3	0	—	−0·35	57	63
	Marlborough ℳ	54	25	49·5	28·1	38·8	− 7·2	0	—	−0·45	*	*
	Strathfield Turgiss ℳ	55	23	50·1	27·9	39·0	− 7·1	0	—	−0·38	*	*
	Dover	47	34	44·0	37·0	40·5	− 5·1	0	—	−0·45	*	*
	Hastings (St. Leonard's)	49	30	47·1	35·1	41·1	− 5·4	0	—	−0·44	*	*
	Southampton	55	27	51·3	32·3	41·8	− 4·7	0	—	?	69	77
	Hurst Castle	54	30	47·3	35·3	41·3	− 4·7	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	50	24	45·5	26·8	36·2	− 6·8	0	—	?	*	*
	Glasgow	47	22	42·6	28·0	35·3	− 8·1	0	—	−0·50	50	56
	Ardrossan	50	25	44·0	29·1	36·6	− 6·9	0	—	−0·50	*	*
	Silloth (Cumberland)	50	24	44·2	27·9	36·1	− 7·9	1	0·02	−0·37	65	72
	Douglas (Isle of Man)	49	28	43·1	32·6	37·9	− 6·9	0	—	−0·54	68	76
7. ENGLAND, N.W.	Barrow-in-Furness	54	26	48·4	28·7	38·6	− 6·2	0	—	?	*	*
	Stonyhurst	50	25	43·4	27·2	35·3	− 9·1	0	—	−0·63	58	64
	Blackpool ℳ	50	23	45·7	27·9	36·3	− 8·7	0	—	−0·39	*	*
	Manchester	47	24	42·4	26·9	34·7	−10·0	3	0·25	−0·23	*	*
	Liverpool Obsy (Bidston)	48	28	43·1	30·9	37·0	− 8·1	0	—	−0·30	*	*
	Llandudno ℳ	46	28	43·1	30·5	36·8	− 9·1	0	—	−0·40	45	50
	Holyhead	46	31	44·0	32·4	38·2	− 7·2	0	—	−0·44	*	*
8. ENGLAND, S.W.	Pembroke	52	30	47·7	31·3	39·5	− 7·6	0	—	−0·56	73	81
	Arlington (N. Devon)	51	28	47·7	29·9	38·8	− 8·0	0	—	?	*	*
	Falmouth	50	35	47·4	37·9	42·7	− 5·3	1	0·03	−0·57	49	54
	Plymouth	55	31	50·7	34·5	42·6	− 4·5	1	0·07	−0·52	*	*
	Prawle Point	53	33	47·6	34·9	41·3	− 5·6	1	0·45	?	*	*
9. IRELAND, N.	Londonderry	53	25	46·4	28·0	27·2	− 7·7	0	—	−0·57	*	*
	Mullaghmore	49	31	44·9	33·0	39·0	− 6·0	0	—	?	*	*
	Markree Castle	53	19	48·1	27·4	37·8	− 8·3	0	—	−0·46	68	76
	Brookeborough	50	22	45·6	28·5	37·1	− 8·0	0	—	?	*	*
	Armagh	47	25	43·2	28·8	36·8	− 9·0	0	—	−0·41	62	69
	Donaghadee	46	28	42·7	33·7	38·2	− 6·7	0	—	?	*	*
10. IRELAND, S.	Dublin	46	31	43·2	34·3	38·8	− 6·7	0	—	0·53	65	72
	Parsonstown	51	20	47·9	27·1	37·5	− 7·5	0	—	0·51	68	76
	Waterford	53	27	47·7	31·7	39·7	− 7·1	0	—	0·62	*	*
	Roche's Point	51	31	48·6	34·6	41·6	− 5·3	0	—	0·70	*	*
	Valentia	56	30	51·9	33·3	42·6	− 4·0	0	—	0·90	70	78
	Foynes	55	25	53·4	27·4	40·4	− 6·0	0	—	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Note.—The reports from Glenalmond and Kelstern have ceased.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 14.] WEEK ENDING MONDAY, APRIL 11, 1881. [*Price 2d.*
[*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	23	49	31	40	4 below.	1	less than ½	3 less.	27	28
	2. ENGLAND, N.E.	54	24	45	33	39	6 below.	1	2	1 less.	47	50
	3. ENGLAND, E.	67	27	50	33	42	5 below.	1	1	3 less.	59	63
	4. MID. COUNTIES	63	25	53	32	43	5 below.	1	3	1 less.	41	48
	5. ENGLAND, S.	61	27	52	36	44	3 below.	3	3	2 less.	27	29
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	26	50	33	42	3 below.	1	2	3 less.	58	62
	7. ENGLAND, N.W.	60	24	51	33	42	5 below.	1	3	1 less.	52	56
	8. ENGLAND, S.W.	58	31	51	38	44	4 below.	2	3	2 less.	26	28
	9. IRELAND, N.	58	25	50	35	42	4 below.	2	2	3 less.	49	53
	10. IRELAND, S.	57	27	52	38	45	3 below.	3	4	2 less.	40	43

General Remarks.

Weather during the greater part of the week was again very cold, fine, and dry, but towards the close of the period it changed, becoming cloudy and milder with some showers of rain.

Temperature has again been below the mean for the season in all districts, the deficit being greatest (5° or 6°) in northern and central England. Several sharp frosts were experienced over the central and northern parts of the Kingdom, the thermometer falling to 23° at Leith, 24° at York and Blackpool, and to between 25° and 30° at most other stations. On the 10th and 11th, however, temperature was much higher, readings as high as 63° being reported from the Midland Counties, while at Hillington the maximum was 65°, and at Cambridge 67°.

Rainfall was much less than the mean in all districts.

Bright sunshine was much less prevalent in most places than it was during last week, but the percentages were still high over most parts of the Kingdom, ranging from 63 or 62 in the W. of Scotland and E. of England, to 28 and 29 in the S. and S.W. of England and E. of Scotland.

Depressions observed.—Until the 8th, pressure continued highest to the northward and lowest to the southward and south-westward of our Islands, causing a continuance of fresh or strong easterly winds on nearly all our coasts; on the 9th, however, a depression was seen to be approaching our S.W. coasts, causing the wind to shift to the south-eastward and southward, and at the close of the period moderate southerly breezes were blowing at all our stations.

Q 6072. 100.—4/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 11, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 5.

Weather fine at the greater number of our stations, but cloudy in the S.W. as well as over France and Norway. Fine and dry all day.

Temperature fallen in Scotland and risen at most Continental stations, scarcely changed elsewhere. Readings ranging from 41° at Scilly and 43° at Wick to 30° at Barrow-in-Furness. Maxima between 40° and 50°.

Wind westerly in Scandinavia and the extreme N. of Scotland, easterly elsewhere. Blowing strongly at our southern stations, and reaching a gale in the Channel. Easterly strong winds and gales holding all day.

Sea rough in the S.E., S., and S.W.

Barometer falling over the whole of western Europe, but change uniform. Area of high pressure lying over the northern parts of these Islands and the North Sea, with relatively low readings over the Bay of Biscay and N. Norway. Mercury falling slowly all day.

Wednesday, April 6.

Weather still fine at most of our stations, but cloudy in the S. and over the Continent generally. Dry generally, and fine and bright except in the S.W.

Temperature again risen in France, changed very little elsewhere; ranging from 44° at Wick and 43° in the S.W. to 31° at Barrow-in-Furness. Maxima between 45° and 55°.

Wind lighter in force but unchanged in direction; easterly winds still prevailing except in N. Blowing freshly or strongly in the S. Easterly winds holding all day.

Sea rough in the E. and S.W.

Barometer rising slowly except over S. Scandinavia. Area of high pressure shown over Scotland, with low pressure over Bay of Biscay. Slight further increase occurring during day.

Thursday, April 7.

Weather still generally fine but dull on our S.W. coasts, and raining in W. France. Scarcely any change during day, dull skies with rain continuing in S.W. and fine weather elsewhere.

Temperature unaltered, readings ranging from 44° at Valentia and 40° at Wick to 33° at Nairn. Maxima between 45° and 55°, but slight frost again experienced at some eastern stations.

Wind easterly over nearly the whole of France, England, and Ireland but drawing into S.E. or S. in Scotland. Blowing strongly to a gale in the Channel. Easterly strong winds and gales all day.

Sea rough in the E., S.E., and S.

Barometer rising over the whole of western Europe—very quickly in Sweden. Large anticyclone lying over the northern half of our area with depression over the Bay of Biscay. Pressure increasing all day.

Friday, April 8.

Weather still dull and unsettled in the S.W. and over France, and rather more cloudy generally than of late but fine in the S.E. and N.W. Dry all day and fine in most places.

Temperature fallen slightly; readings low, ranging from 44° at Valentia to 31° at Barrow-in-Furness. Maxima between 43° and 56° and frost recorded at a few inland stations at night.

Wind easterly over the North Sea, the north of France, and the greater part of England, but drawing into S.E. and S. over Ireland and Scotland. Blowing freshly in the S. and W. No change later.

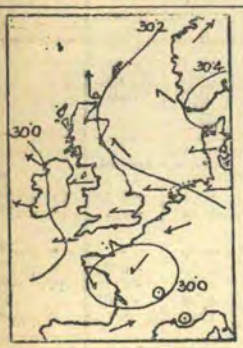
Sea rough in the S.W. and S.E.

Barometer rising except in N. Scandinavia. Anticyclone shown over S. Sweden with large disturbance in far N. and shallow depression over France. Pressure giving way slowly all day except over France.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, April 9.

Weather cloudy except over the E. and N. of England; much mist reported from the S.W. Fine in the E. all day, but rain and mist setting in S. Ireland later.

Temperature risen very slightly, and readings ranging from 47° at Scilly to 37° at Leith. Maxima between 47° and 57° generally, but following night rather cold.

Wind easterly over the Channel and our southern counties, but drawing into S.E. and S. on our northern coasts and into N. and N.W. in the W. of France, easterly to southerly winds prevailing all day over these Islands, blowing strongly in the W. and N.

Sea rough off the S.W. of Ireland and S.E. of England.

Barometer rising in France, falling elsewhere. Anticyclone still shown over the S. of Scandinavia, with low pressures over Lapland, off the W. of Ireland, and over France. Mercury falling rather briskly in the N.W. and W. later.

Sunday, April 10.

Weather fine on the eastern shores of the North Sea and some of our E. coast stations, but cloudy or dull generally with mist or fog in the W. and S.W. Fine all day in the E.; unsettled in the W.

Temperature fallen over central England, risen in most other places; readings ranging from 51° at Valentia to 33° at Oxford. Thermometer rising to 60° in London and Oxford later.

Wind south-easterly over France and our W. coast, but still easterly over the North Sea and our E. coasts, and southerly in Scotland. Not much change later, but both south-easterly and southerly wind strong in the evening.

Sea rough in the extreme W. and N.

Barometer falling in all places except the S. of Scandinavia. Pressure highest in Sweden and lowest off our S.W. coasts. Mercury falling rather briskly all day, but distribution unchanged.

Monday, April 11.

Weather fine at our eastern stations and to the eastward of the North Sea; dull elsewhere, with rain in the S.W. Sky rather cloudy during day, with slight showers in many places.

Temperature risen generally, quickly in S.E.; readings ranging from 51° at Valentia to 40° at Wick. Maxima between 47° and 57° generally, but 60° in London and at Holyhead.

Wind westerly on our S.W. coasts, south-easterly and easterly in most other districts, but southerly in N. Scotland. Blowing strongly in the W. and S.W. Wind backing to S.S.E. at Valentia later; little other change.

Sea rough at Scilly and Wick.

Barometer rising in the S.W., and falling elsewhere. Pressure high over Scandinavia and Spain, with a depression over Ireland. Fresh fall taking place at Valentia in the evening, and new disturbance approaching.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head										•	•
	Stornoway										•	•
	Wick	50	30	46·4	33·0	39·7	−3·3	1	0·07	−0·33	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	56	36	49·3	41·3	45·3	−5·2	5	0·44	−0·03	•	•
	Jersey (Noirmont)										23	25

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	57	28	52·3	30·6	41·5	− 2·3	0	—	−0·30	*	*
	Aberdeen	50	28	46·1	33·1	39·6	− 3·8	1	0·07	−0·33	27	28
	Leith	55	23	48·7	30·6	39·7	− 4·4	1	0·05	−0·25	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	30	41·3	34·0	37·7	− 6·8	2	0·09	?	*	*
	Shields	48	30	43·6	34·0	38·8	− 5·9	2	0·13	−0·26	*	*
	Durham	50	27	46·3	30·6	38·5	− 6·4	1	0·32	−0·10	43	46
	York	54	24	50·1	30·6	40·4	− 5·0	1	0·40	+0·01	50	54
	Spurn Head	47	34	43·9	36·3	40·1	− 5·6	1	0·17	?	*	*
3. ENGLAND, E.	Hillington ⁂	65	31	52·2	32·2	42·2	− 3·8	1	0·11	−0·28	56	60
	Yarmouth	47	35	43·0	37·3	40·2	− 5·8	1	0·05	−0·35	*	*
	Geldeston	60	33	47·8	35·6	41·7	− 4·8	1	0·04	−0·32	61	66
	Cambridge	67	27	55·3	28·7	42·0	− 4·5	1	0·07	−0·23	59	64
	Rothamsted	63	28	52·6	31·5	42·1	− 4·9	1	0·18	−0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	63	25	52·9	31·1	42·0	− 4·0	1	0·25	−0·22	*	*
	Nottingham											
	Loughborough	61	30	54·2	32·0	43·1	− 3·4	1	0·09	−0·30	*	*
	Leicester	63	28	51·1	31·4	41·3	− 5·4	1	0·18	−0·12	43	46
	Birmingham (Oscott)	58	28	53·2	31·0	42·1	− 5·1	2	0·44	−0·01	*	*
	Cheadle ⁂	58	28	51·2	31·4	41·3	− 5·7	1	0·10	?	*	*
	Churchstoke ⁂	57	26	51·8	31·4	41·6	− 6·2	2	0·32	?	48	52
	Hereford ⁂	59	29	54·3	33·8	44·1	− 3·9	2	0·34	−0·01	*	*
	Cirencester	58	27	54·0	32·1	43·1	− 4·6	2	0·53	+0·08	41	45
	Oxford	60	28	55·1	31·9	43·5	− 4·0	1	0·33	−0·02	43	47
5. ENGLAND, S.	London†	61	31	54·4	35·7	45·1	− 2·5	1	0·11	−0·24	27	29
	Marlborough ⁂	58	28	53·8	32·6	43·2	− 4·4	3	0·45	−0·01	*	*
	Strathfield Turgiss ⁂	60	27	54·4	32·7	43·6	− 4·1	2	0·33	−0·07	*	*
	Dover	57	33	48·1	40·4	44·3	− 2·8	1	0·02	−0·43	*	*
	Hastings (St. Leonard's)	55	35	51·7	39·5	45·6	− 2·1	2	0·11	−0·33	*	*
	Southampton	58	32	53·9	36·9	45·4	− 2·6	4	0·49	?	26	28
	Hurst Castle	56	34	49·6	36·6	43·1	− 4·4	4	0·34	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	30	51·4	36·7	44·1	+ 0·1	0	—	?	*	*
	Glasgow	55	29	49·1	31·8	40·5	− 4·3	1	0·09	−0·42	57	61
	Ardrossan	56	27	52·1	31·0	41·6	− 3·4	1	0·14	−0·36	*	*
	Silloth (Cumberland)	58	26	52·1	29·6	40·9	− 4·4	1	0·16	−0·23	63	67
	Douglas (Isle of Man)	49	30	47·2	35·7	41·5	− 4·5	2	0·34	−0·16	55	59
7. ENGLAND, N.W.	Barrow-in-Furness	55	28	52·9	31·1	42·0	− 4·2	1	0·22	?	*	*
	Stonyhurst	53	28	49·1	32·1	40·6	− 5·4	1	0·21	−0·39	58	62
	Blackpool ⁂	56	24	51·7	30·5	41·1	− 5·4	1	0·27	−0·10	*	*
	Manchester	56	29	50·3	32·0	41·2	− 5·3	1	0·18	−0·27	*	*
	Liverpool Obsy (Bidston)	? 58	30	51·7	32·9	42·3	− 4·4	2	0·48	+0·18	*	*
	Llandudno ⁂	60	30	51·2	34·1	42·7	− 4·5	1	0·43	+0·03	46	50
	Holyhead	60	32	50·1	35·4	42·8	− 4·1	2	0·36	−0·04	*	*
8. ENGLAND, S.W.	Pembroke	52	32	50·1	35·1	42·6	− 6·1	2	0·40	−0·12	39	42
	Arlington (N. Devon)	56	31	51·9	36·0	44·0	− 4·1	1	0·08	−0·43	*	*
	Falmouth	55	38	48·4	42·0	45·2	− 3·9	3	0·59	+0·02	13	14
	Plymouth	58	34	53·3	39·2	46·3	− 2·2	2	0·35	−0·18	*	*
	Prawle Point	52	34	48·9	37·3	43·1	− 4·9	2	0·16	?	*	*
9. IRELAND, N.	Londonderry	55	28	51·6	33·4	42·5	− 3·5	1	0·22	−0·34	*	*
	Mullaghmore	55	32	50·6	37·0	43·8	− 2·3	1	0·17	?	*	*
	Markree Castle	58	25	51·4	32·7	42·1	− 4·4	1	0·14	−0·26	51	55
	Brookeborough	55	29	50·5	34·1	42·3	− 4·0	2	0·29	?	*	*
	Armagh	51	28	47·3	34·5	40·9	− 5·1	2	0·31	−0·14	47	51
	Donaghadee	51	33	46·9	36·9	41·9	− 4·1	2	0·17	?	*	*
10. IRELAND, S.	Dublin	52	35	47·2	38·5	42·9	− 4·0	2	0·34	−0·26	39	42
	Parsonstown	57	27	52·7	33·6	43·2	− 3·3	2	0·14	−0·45	55	59
	Waterford	55	31	50·8	36·6	43·7	− 4·3	4	0·61	+0·02	*	*
	Roche's Point	57	35	52·4	40·1	46·3	− 1·7	2	0·56	−0·12	*	*
	Valentia	56	34	52·9	41·4	47·2	− 0·7	4	0·54	−0·33	27	29
	Foynes	57	30	55·1	34·1	44·6	− 3·0	2	0·05	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 15.] WEEK ENDING MONDAY, APRIL 18, 1881. [*Price 2d.*
[*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	61	28	51	38	44	1 below.	3	3	1 more.	31	32
	2. ENGLAND, N.E.	66	34	50	39	45	2 below.	4	2	2 less.	18	18
	3. ENGLAND, E.	65	34	56	42	49	1 above.	3	5	1 more.	35	36
	4. MID. COUNTIES	69	34	59	43	51	2 above.	2	4	0 (average).	30	31
	5. ENGLAND, S.	69	35	59	43	51	2 above.	1	1	3 less.	34	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	35	55	41	48	2 above.	3	5	0 (average).	31	31
	7. ENGLAND, N.W.	66	37	56	44	50	2 above.	4	7	2 more.	25	25
	8. ENGLAND, S.W.	65	39	56	46	51	1 above.	2	3	2 less.	31	32
	9. IRELAND, N.	61	37	54	44	49	2 above.	4	8	2 more.	25	25
	10. IRELAND, S.	63	36	56	43	50	1 above.	3	3	3 less.	29	30

General Remarks.

Weather has been milder and rather less settled than of late with some showers of rain. A thunderstorm occurred at Brookeborough on the 15th, at our central and north-western stations on the 13th or 14th, and at Stonyhurst on the 16th.

Temperature was one or two degrees above the mean in all districts except "England, N.E." and "Scotland, E." The maxima were rather high, readings of 69° being registered in London and at Leicester, and of 65° or 66° on our southern coasts on the 17th. At most other stations the maxima occurred during the earlier part of the period. The lowest of the minima were registered on the 18th when the thermometer at Aberdeen fell to 28°.

Rainfall was slightly more than the mean in "Scotland, E.," "England, E.," "England, N.W.," and "Ireland, N.," and equal to it in "Scotland, W." and the "Midland Counties," but in all other places the fall was less than the mean.

Bright sunshine shows a decided decrease in nearly all districts, the percentages ranging from 36 in the S. and E. of England, to 18 in "England, N.E."

Depressions observed.—No. 1 was shown over England on the 14th; it was very shallow and moved slowly in an easterly direction at the same time filling up. It caused light or moderate winds from W. in the S., from S. in the E., from E. in the N., and from N. in the W. No. 2 was shown over the Bay of Biscay on the 17th, and pressure continued low in that region during the remainder of the period.

Q 6121. 100.—4/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 18, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 12.

Weather fine over France and the countries to the eastward of the North Sea, cloudy or dull at nearly all our stations, with rain in several places. Cloudy and showery all day, but clearing in S.E. at night.

Temperature fallen over France, risen elsewhere; readings ranging from 52° at Scilly to 42° in the N.E. of Scotland. Maxima between 45° and 55° generally, but 60° registered at our inland stations.

Wind southerly over these Islands and France, south-easterly and easterly over Denmark and Norway. Blowing freshly in S.W. Southerly winds holding all day, blowing strongly in the W. and N.

Sea rough in the S.W.

Barometer rising in the E. of France and N. of Scandinavia, falling elsewhere. Pressure high both over France and Sweden, low off our W. coasts. Mercury nearly steady during day.

Wednesday, April 13.

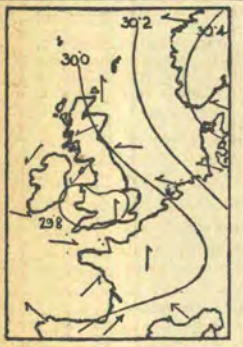
Weather still fine over the E. of France and the eastern shores of the North Sea, cloudy elsewhere. Mist prevailing on our E. and rain on our N.W. coasts. Very fine in S.E. later.

Temperature changed rather irregularly, but risen in most places; readings ranging from 54° in London to 43° at Aberdeen. Maxima between 60° and 69° over central England.

Wind easterly in the S.E. and over the North Sea, south-easterly and southerly in most other places. Light or moderate generally. Easterly and south-easterly winds prevailing all day in the E., but more variable breezes elsewhere.

Sea rough in the S. W. and at Wick.

Barometer falling somewhat in W. France, and small depression shown over Bay of Biscay, but rising generally and distribution little changed. Mercury rising all day except in S.E.



Thursday, April 14.

Weather fine over Sweden, Denmark, and N. Germany, cloudy elsewhere, with rain or fog in many places. Cloudy, showery, and dull all day, with a good deal of fog or mist.

Temperature fallen in most places: readings ranging from 56° in London to 41° at Leith. Maxima lower than on 13th, not exceeding 60° except in London, where 61° was registered.

Wind variable; westerly in the S.W. and S., and easterly in the E., N., and N.W. Light or moderate generally. No change during day.

Sea rough off Ushant.

Barometer falling over England, and depression shown over that country; rising elsewhere, and anticyclone still shown over Sweden. Very little change later, depression holding over England.

Friday, April 15.

Weather fine at the continental and dull at our stations; fog reported from many places, and rain from our E. coast. Dull and misty during day in N. England, but fine elsewhere.

Temperature fallen generally; readings ranging from 53° at Scilly to 42° at Leith. Thermometer falling at the Channel stations during day, rising elsewhere. Maxima again below 60°, except in London.

Wind very light and variable over these Islands, moderate to fresh from E. over Norway, Denmark, and France. Light variable breezes on our coasts all day.

Sea slight, except at Aberdeen.

Barometer falling at Biarritz from a new depression; anticyclone at same time giving way a little over Scandinavia; but pressure increasing elsewhere. Rising over these Islands during day, but French fall spreading northward.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 16.

Weather fine over Scandinavia, N. Germany, and many of our eastern stations, cloudy elsewhere; much fog or mist prevailing in the S. and W. Fine all day except at some central and south-western stations.

Temperature fallen over the British Isles, risen elsewhere; readings ranging from 53° at Valentia to 37° at Nairn. Rising briskly later; 60° registered at Nottingham and in London, and 63° at Valentia and Cambridge.

Wind shifted to E. generally, and though light or moderate in most places, blowing freshly at Scilly. Wind rather variable later but general current easterly.

Sea rough round Scilly.

Barometer rising except in Scandinavia. Anticyclone lying over Sweden, Norway, and the North Sea, and depression over Bay of Biscay. Scarcely any change later beyond slight fall in S.

Sunday, April 17.

Weather fine in the E. and N. as well as over the countries to the eastward of the North Sea, dull or cloudy in the W. and S. Very fine all day in the E. and N. and dry generally.

Temperature changes rather irregular but generally upward; readings ranging from 57° in London to 40° at Nairn. Maxima higher again, 65° being registered at Barrow-in-Furness and 68° in London.

Wind easterly to north-easterly all over the Kingdom and the southern half of the North Sea, but south-easterly over the W. of France. Easterly winds holding all day and increasing to a gale at Scilly.

Sea slight.

Barometer falling over the Bay of Biscay and our S.W. coasts, rising elsewhere. Anticyclone still over Norway and the North Sea, with depression over N. Spain. Mercury falling in S. all day, but steady in North.

Monday, April 18.

Weather fine and bright over the southern parts of Scandinavia and central and eastern England, more or less cloudy elsewhere, with mist in many places. Fine all day over England, but slight rain falling at Aberdeen.

Temperature risen except in the N. and E., readings ranging from 55° in London to 35° at Aberdeen. Maxima below 50° in the N.E., between 50° and 60° generally, and 65° in London. Rapid decrease occurring in all districts in the evening.

Wind north-westerly in Scotland, and north-westerly to westerly in Scandinavia, but easterly over the North Sea and our coasts, and south-easterly in the Bay of Biscay. Blowing strongly in S.W. Wind shifting to N. in the E. later and blowing strongly.

Sea rough at Scilly and Roche's Point.

Barometer rising over the British Isles, falling on the Continent. Anticyclone lying over Scotland, with depressions over Lapland and N. Spain. Mercury falling slowly all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⇒⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
Scotland, N.	Sumburgh Head											
	Stornoway											
	Wick	55	26	48·3	34·7	41·5	−2·8	1	0·05	−0·35	*	*
Channel Islands	Scilly (St. Mary's)	55	46	55·0	47·7	51·4	−0·3	3	0·21	−0·26	*	*
	Jersey (Noirmont)	65	41	59·3	46·4	52·9	+2·9	1	0·24	−0·29	36	38

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	61	30	54·7	37·6	46·2	+ 1·1	2	0·13	−0 18	*	*
	Aberdeen	52	28	48·0	36·1	42·1	− 2·9	3	0·10	−0·40	31	32
	Leith	54	35	49·3	39·3	44·3	− 1·5	5	0·56	+0·21	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	34	47·0	37·9	42·5	− 3·3	3	0·30	?	*	*
	Shields	55	36	47·1	38·7	42·9	− 3·1	4	0·09	−0·31	*	*
	Durham	66	34	51·9	39·0	45·5	− 0·9	3	0·07	−0·38	13	13
	York	65	35	55·9	40·9	48·4	+ 1·5	5	0·36	−0·04	22	23
	Spurn Head	54	38	48·1	40·7	44·4	− 2·6	5	0·19	?	*	*
3. ENGLAND, E.	Hillington ℳ	62	37	57·4	43·0	50·2	+ 2·9	3	0·66	+0·37	26	27
	Yarmouth	51	40	47·9	42·1	45·0	− 2·5	3	0·32	−0·08	*	*
	Geldeston	60	38	55·4	41·7	48·6	+ 0·6	3	0·38	+0·05	43	44
	Cambridge	65	35	60·9	41·9	51·4	+ 3·4	4	0·70	+0·39	35	36
	Rothamsted	62	34	59·0	40·9	50·0	+ 1·2	3	0·25	−0·06	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	34	57·3	40·7	49·0	+ 1·6	4	0·36	−0·01	*	*
	Nottingham										*	*
	Loughborough	64	39	59·5	42·8	51·2	+ 3·1	3	0·83	+0·46	*	*
	Leicester	69	34	61·2	43·0	52·1	+ 3·6	4	1·09	+0·79	23	23
	Birmingham (Oscott)	61	38	58·1	42·9	50·5	+ 1·7	2	0·16	−0·29	*	*
	Cheadle ℳ	60	37	56·8	43·1	50·0	+ 1·5	3	0·43	?	*	*
	Churchstoke ℳ	64	37	58·3	41·8	50·1	+ 1·1	1	0·22	?	39	40
	Hereford ℳ	64	41	60·6	44·3	52·5	+ 3·2	2	0·04	−0·31	*	*
	Cirencester	63	34	59·7	41·9	50·8	+ 1·6	0	—	−0·46	34	36
	Oxford	63	36	60·4	43·0	51·7	+ 2·6	2	0·08	−0·27	25	26
5. ENGLAND, S.	London†	69	39	63·9	43·1	53·5	+ 4·4	2	0·21	−0·15	30	32
	Marlborough ℳ	63	35	59·4	41·8	50·6	+ 1·5	1	0·01	−0·46	*	*
	Strathfield Turgiss ℳ	66	36	62·7	41·6	52·2	+ 3·1	1	0·03	−0·40	*	*
	Dover	57	44	53·7	45·7	49·7	+ 1·9	3	0·09	−0·33	*	*
	Hastings (St. Leonard's)	65	40	58·0	43·6	50·8	+ 1·7	2	0·06	−0·37	*	*
	Southampton	66	38	61·5	43·6	52·6	+ 3·1	0	—	?	38	39
	Hurst Castle	61	37	55·7	43·1	49·4	0·0	1	0 06	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	35	55·3	41·5	48·4	+ 2·5	2	0·44	?	*	*
	Glasgow	60	35	53·3	40·1	46·7	+ 0·6	2	0·44	−0·09	35	36
	Ardrossan	62	36	55·1	40·6	47·9	+ 1·8	4	0·59	+0·09	*	*
	Silloth (Cumberland)	65	36	57·5	41·5	49·5	+ 3·0	5	0·61	+0·21	27	27
	Douglas (Isle of Man)	57	42	52·9	43·5	48·2	+ 0·9	3	0·40	−0·08	30	31
7. ENGLAND, N.W.	Barrow-in-Furness	65	40	57·9	43·7	50·8	+ 3·5	5	0·90	?	*	*
	Stonyhurst	59	37	53·9	42·8	48·4	+ 0·9	5	0·84	+0·28	22	22
	Blackpool ℳ	64	40	56·6	43·4	50·0	+ 2 3	5	0·36	+0·03	*	*
	Manchester	62	39	54·9	43·1	49·0	+ 1·0	5	1·25	+0·80	*	*
	Liverpool Obs' (Bidston)	60	42	54·9	44·7	49·8	+ 1·7	2	0·64	+0·36	*	*
	Llandudno ℳ	66	40	56·2	43·3	49·8	+ 1·5	2	0·19	−0·21	27	27
	Holyhead	60	41	54·3	44·0	49·2	+ 1·0	3	0·34	−0·06	*	*
8. ENGLAND, S.W.	Pembroke	59	43	53·3	44·9	49·1	− 0·9	2	0·46	+0·06	31	32
	Arlington (N. Devon)	62	40	58·7	43·9	51·3	+ 1·7	2	0·63	?	*	*
	Falmouth	58	45	53·7	47·8	50·8	+ 0·3	2	0·22	−0·34	30	32
	Plymouth	65	39	59·5	47·4	53·5	+ 3·8	1	0·05	−0·45	*	*
	Prawle Point	58	40	54·7	44·6	49·7	+ 0·1	1	0·05	?	*	*
9. IRELAND, N.	Londonderry	61	39	55·8	43·3	49·6	+ 2·5	4	0·77	+0·22	*	*
	Mullaghmore	57	43	53·4	45·1	49·3	+ 1·9	3	1·20	?	*	*
	Markree Castle	60	37	56·3	42·2	49·3	+ 1·7	4	0·29	−0·07	24	25
	Brookeborough	59	40	55·1	44·0	49·6	+ 2·2	3	1·09	?	*	*
	Armagh	57	41	54·0	44·3	49·2	+ 2·0	5	0·99	+0·52	25	25
	Donaghadee	53	42	51·6	43·3	47·5	+ 0·5	4	0·46	?	*	*
10. IRELAND, S.	Dublin	55	38	51·8	43·4	47·6	− 0·6	4	0·63	+0·08	19	20
	Parsonstown	61	36	57·3	42·7	50·0	+ 1·6	3	0·11	−0·34	29	30
	Waterford	59	38	?55·6	?43·9	?49·8	? + 0·6	5	0·44	−0·12	*	*
	Roche's Point	60	39	55·1	44·1	49·6	+ 0·1	1	0·16	−0·45	*	*
	Valentia	63	37	58·4	44·1	51·3	+ 1·9	2	0·11	−0·73	40	40
	Foynes	59	37	56·9	40·4	48·7	− 0·2	2	0·50	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 16.] WEEK ENDING MONDAY, APRIL 25, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	57	32	49	37	43	3 below.	5	2	2 less.	25	24
	2. ENGLAND, N.E.	60	28	47	35	41	7 below.	4	3	2 less.	25	25
	3. ENGLAND, E.	60	27	49	36	43	7 below.	5	3	1 less.	19	19
	4. MID. COUNTIES	62	25	50	35	42	8 below.	2	2	3 less.	24	24
	5. ENGLAND, S.	62	26	51	36	44	7 below.	3	1	3 less.	21	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	28	49	37	43	5 below.	4	5	1 less.	32	31
	7. ENGLAND, N.W.	57	28	49	38	43	6 below.	3	2	2 less.	32	32
	8. ENGLAND, S.W.	61	29	50	38	44	7 below.	3	2	4 less.	36	36
	9. IRELAND, N.	58	31	51	40	46	3 below.	5	3	1 less.	42	42
	10. IRELAND, S.	59	28	52	40	46	4 below.	3	1	5 less.	34	34

General Remarks.

Weather has been cloudy generally with some slight showers of rain, hail, or sleet. Thunder occurred at Leicester on the 23rd, and at Shields and Stonyhurst on the 25th.

Temperature has again been below the mean in all districts, the deficit being from 3° to 6° in the W. and N., and as much as 7° to 8° elsewhere. The lowest of the minima were registered in most places on the 21st, when temperature fell to 25° at Cheadle, to 26° at Marlborough and Strathfield Turgiss, and to between 27° and 32° at many other stations. Readings were highest towards the close of the period, when the thermometer rose to between 60° and 62° over the greater part of England.

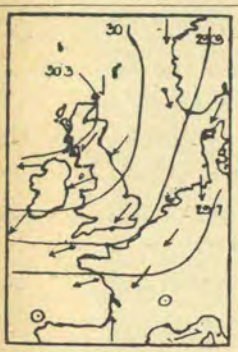
Rainfall was less than the mean in all districts.

Bright sunshine was more prevalent in the W. and S.W. than elsewhere, the percentages varying from 42 in "Ireland, N." to 19 in "England, E."

Depressions observed.—Until the 22nd, pressure was lowest to the eastward and southward of our Islands, the prevailing winds being northerly or north-easterly, and fresh or strong in force. On the 22nd and 23rd some shallow subsidiary depressions appeared over England, causing the wind to vary a good deal in direction, but these were very slight. At the close of the period, however, a large depression advanced from the south-westward to the W. of Norway; fresh or strong westerly winds were felt on all our coasts, and a strong W. to N.W. gale at some of the northern stations.

Q 6222. 100.—4/81. Wt. 230. E. & S.

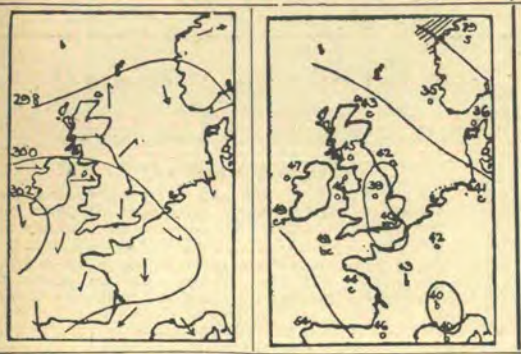
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending April 25, 1881.

Synoptic Weather Charts.—8 a.m.		**Weather** during the 24 hours succeeding the date of the Charts.
Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	
		**Tuesday, April 19.** *Weather* fine over the S. of Norway and Denmark cloudy or dull elsewhere; rain falling in W. France, and snow on our N.E. coasts. Cloudy or dull all day, with showers in the E. *Temperature* fallen everywhere,—change very rapid in S.E. Thermometer low all day; maxima below 50° except at Valentia, with slight frost at inland and northern stations at night. *Wind* northerly all over the more northern portions of our area, but drawing into N.E. and E. in the S. Blowing strongly generally, and reaching a gale over the Channel and N. of France. Strong squally winds all day. *Sea* rough except in the N. *Barometer* falling generally, but rising a little at the Channel stations and in Ireland. Readings highest in the N.W., with depressions over the Baltic and the S. of France. Mercury falling slowly all day.
		Wednesday, April 20. *Weather* cloudy or dull except in parts of France and Denmark; sleet or hail showers occurring in the E. Cloudy and unsettled all day, but clearing in E. and N. at night. *Temperature* fallen again except in the N.; changes slight except over France; readings ranging from 41° in the W. to 36° at York. Maxima again below 50° everywhere, and frost in N. and E. at night. *Wind* northerly over these Islands and to the eastward of the North Sea, easterly over France; blowing strongly in some places, but moderate generally. Moderate to strong northerly breezes holding all day. *Sea* rough in the E. and S.W. *Barometer* falling except over France. Anticyclone still over western coasts, with depressions over Sweden and S. France, but Baltic disturbance very much deeper. Mercury falling all day, but distribution little changed.
		Thursday, April 21. *Weather* cloudy or dull generally, but fine in the N.E. of France; snow falling at Yarmouth. Cloudy in most places, but fair in the S.E., though with occasional showers. *Temperature* changed irregularly, but inclined upward. Readings ranging from 45° at Valentia to 35° at Spurn Head. Rising somewhat later, but not exceeding 50° except in a few places. *Wind* still northerly on our coasts and easterly over France. Blowing rather strongly at the French stations, but moderate at most of our ports. Moderate northerly winds blowing all day. *Sea* rough in the N.E. *Barometer* falling except over France. Distribution little changed; readings highest over W. Ireland and low over Baltic and S. France. Slight decrease in N. and W. during day, and slight increase in E. and S.
		Friday, April 22. *Weather* fine at some south-eastern and north-western stations; cloudy or dull generally. Clearing considerably towards evening, but still rather unsettled with slight showers. *Temperature* risen slightly, readings ranging from 49° in S. Ireland to 39° at Shields. Maxima ranging from 58° in the S.W. to about 45° in the E. *Wind* northerly all over these Islands and France, but light or moderate in force, except at a few stations. Northerly winds holding steadily. *Sea* slight, except at mouth of Tyne. *Barometer* falling over the greater part of England and N. of France, rising elsewhere. Pressure highest over N. Spain and lowest over Lapland, with slight depressions over England. Mercury rising steadily during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, April 23.

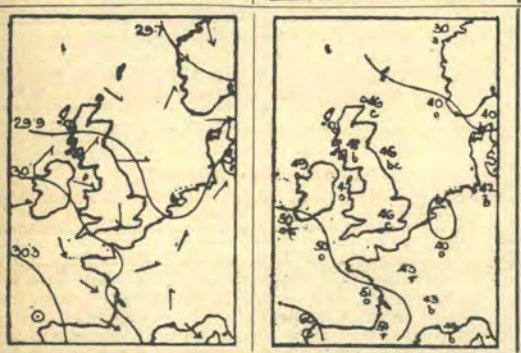
Weather fine over Channel and neighbourhood, cloudy or dull in most other places, with showers in S.W. Weather clearing in N.W. later, but heavy rain falling over the E. of England at night.

Temperature fallen very slightly in most places; readings ranging from 49° in the S.W. to 39° at York. Maxima between 50° and 60° except in the extreme E.

Wind light or moderate generally, from W. and S.W. in the N.W. and N., but drawing into N. on our S. coast and into N.E. over France. Rather strong north-westerly winds experienced in W. during day and south-westerly breezes in the S.E.

Sea moderate or slight.

Barometer rising except over Scotland and Norway. Area of high pressure again over Ireland, with low pressures over the Gulf of Lyons and Gulf of Bothnia. Small depression passing southward down our E. coast later and mercury falling.



Sunday, April 24.

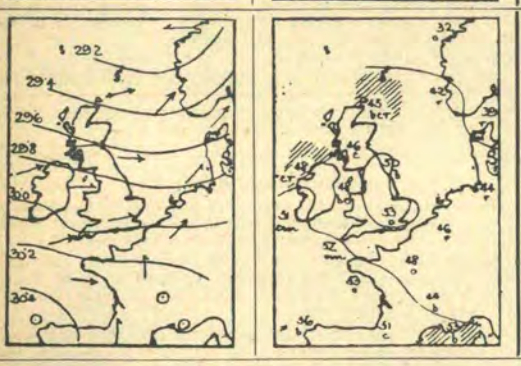
Weather fine in the N. and N.E., but cloudy generally, with showers at Valentia. Fair in the S.E. all day, but dull and rainy in the W. and N.

Temperature risen, and readings ranging from 50° in S.W. to 44° on our S.E. coast. Maxima between 50° and 60°.

Wind backing to S.W. on our W. coasts, but north-westerly breezes reported elsewhere. Backing to W. and S.W. on all coasts during day and increasing to a strong breeze in Ireland.

Sea slight.

Barometer rising slightly over Great Britain, falling elsewhere. Readings highest over Spain, lowest over Lapland, small depression passing southward down North Sea. Large disturbance appearing on our N.W. coasts later, and mercury falling fast.



Monday, April 25.

Weather cloudy or dull except in Scotland and the N. and N.W. of England, with showers in some places, and rain in S. Norway. Unsettled all day with showers at nearly all stations and a thunder-storm at Shields.

Temperature risen slightly; readings ranging from 53° over central England to 45° in N. Scotland. Maxima during day between 50° and 60°, but 61° recorded at Nottingham and in London.

Wind westerly (S.W. & N.W.) all over this Kingdom and France, but south-westerly and southerly to the eastward of the North Sea. Fresh or strong in force, and blowing a gale at Wick. Veering to W.N.W. during day, but continuing strong.

Sea rough off Wick and Mullaghmore.

Barometer rising over France, and recovery commencing in Ireland, but brisk fall in progress elsewhere and deep depression shown near Christiansund. Mercury rising slowly during day, but little change occurring in general distribution.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	53	30	47·6	33·0	40·3	−5·3	6	0·48	+0·08	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	54	37	49·7	42·4	46·1	−6·8	3	0·12	−0·33	*	*
	Jersey (Noirmont)	54	36	48·1	40·4	44·3	−7·0	3	0·09	−0·31	31	32

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	35	47·9	38·0	43·0	− 3·3	5	0·19	−0·15	*	*
	Aberdeen	56	32	48·6	35·7	42·2	− 4·3	6	0·25	−0·25	25	24
	Leith	57	35	50·9	37·7	44·3	− 2·7	4	0·24	−0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	32	46·6	36·6	41·6	− 5·7	3	0·35	?	*	*
	Shields	57	31	47·1	35·4	41·3	− 6·2	5	0·42	+0·02	*	*
	Durham	60	28	48·7	32·8	40·8	− 7·0	3	0·12	−0·33	23	23
	York	59	30	48·9	34·7	41·8	− 6·4	4	0·20	−0·20	27	27
	Spurn Head	51	30	45·6	36·3	41·0	− 7·5	6	0·42	?	*	*
3. ENGLAND, E.	Hillington	60	32	48·9	36·3	42·6	− 6·2	5	0·28	−0·12	21	21
	Yarmouth	57	30	46·6	36·6	41·5	− 7·5	7	0·44	+0·03	*	*
	Geldeston	59	29	48·2	36·4	42·3	− 7·0	6	0·40	+0·07	20	20
	Cambridge	60	27	49·9	35·6	42·8	− 7·2	5	0·27	−0·07	17	17
	Rothamsted	60	27	49·7	36·4	43·1	− 7·0	4	0·27	−0·17	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	30	51·4	36·7	44·1	− 4·5	1	0·10	−0·28	*	*
	Nottingham	61	30	50·6	35·1	42·9	− 6·6	4	0·13	−0·31	*	*
	Loughborough	59	30	49·2	36·4	42·8	− 7·0	2	0·07	−0·31	*	*
	Leicester	57	29	46·5	34·6	40·6	− 9·4	2	0·13	−0·17	22	22
	Birmingham (Oscott)	58	28	48·8	34·0	41·4	− 8·6	2	0·06	−0·40	*	*
	Cheadle	55	25	47·7	33·3	40·5	− 9·3	3	0·37	?	*	*
	Churchstoke	57	26	48·7	33·9	41·3	− 8·9	3	0·33	?	28	28
	Hereford	59	28	50·3	36·3	43·3	− 7·5	2	0·17	−0·20	*	*
	Cirencester	59	28	50·0	34·5	42·3	− 8·5	2	0·08	−0·38	23	23
	Oxford	62	29	51·3	36·4	43·9	− 7·0	2	0·19	−0·17	21	21
5. ENGLAND, S.	London†	61	28	51·9	35·9	43·9	− 6·7	3	0·13	−0·27	15	15
	Marlborough	58	26	50·2	34·8	42·5	− 8·2	3	0·13	−0·35	*	*
	Strathfield Turgiss	62	26	53·7	35·7	44·7	− 6·1	2	0·03	−0·42	*	*
	Dover	53	31	48·3	37·7	43·0	− 6·9	5	0·22	−0·19	*	*
	Hastings (St. Leonard's)	57	29	48·4	36·3	42·4	− 8·1	4	0·19	−0·24	*	*
	Southampton	61	28	52·4	36·7	44·6	− 6·0	3	0·12	?	26	26
	Hurst Castle	58	30	50·3	36·9	43·6	− 7·0	1	?0·05	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	52	33	48·7	37·2	43·0	− 2·4	4	0·85	?	*	*
	Glasgow	58	32	49·7	36·0	42·9	− 4·6	3	0·60	+0·07	33	32
	Ardrossan	56	33	49·3	37·6	43·5	− 4·1	3	0·38	−0·12	*	*
	Silloth (Cumberland)	54	30	48·8	35·4	42·1	− 5·7	3	0·31	−0·09	25	25
	Douglas (Isle of Man)	54	28	48·1	37·0	42·6	− 5·9	5	0·30	−0·15	37	37
7. ENGLAND, N.W.	Barrow-in-Furness	57	33	50·0	38·1	44·1	− 4·7	3	0·30	?	*	*
	Stonyhurst	53	31	46·8	34·8	40·8	− 8·0	3	0·48	−0·08	30	30
	Blackpool	51	31	48·5	37·6	43·1	− 4·9	3	0·15	−0·19	*	*
	Manchester	53	28	48·7	34·4	41·6	− 8·3	2	0·27	−0·18	*	*
	Liverpool Obsy (Bidston)	55	35	49·3	39·1	44·2	− 5·6	3	0·10	−0·17	*	*
	Llandudno	56	35	49·6	40·0	44·8	− 4·7	0	—	−0·40	33	33
	Holyhead	55	38	47·7	41·3	44·5	− 5·2	5	0·23	−0·13	*	*
8. ENGLAND, S.W.	Pembroke	51	35	47·7	39·1	43·4	− 7·9	4	0·12	−0·37	35	35
	Arlington (N. Devon)	54	29	48·7	35·4	42·1	− 8·9	5	9·63	?	*	*
	Falmouth	56	35	51·1	40·6	45·9	− 5·9	3	0·09	−0·47	37	37
	Plymouth	61	32	53·3	38·7	46·0	− 5·0	2	0·07	−0·43	*	*
	Prawle Point	58	30	49·6	36·6	43·2	− 7·8	3	0·18	?	*	*
9. IRELAND, N.	Londonderry	54	37	51·0	40·2	45·6	− 2·8	5	0·44	−0·10	*	*
	Mullaghmore	55	37	51·7	42·6	47·2	− 1·3	5	0·30	?	*	*
	Markree Castle	57	36	52·7	40·1	46·4	− 2·1	5	0·22	−0·18	45	45
	Brookeborough	57	31	50·9	38·1	44·5	− 4·0	4	0·30	?	*	*
	Armagh	57	33	51·3	38·3	44·8	− 3·8	5	0·52	+0·07	38	38
	Donaghadee	58	36	51·0	39·4	45·2	− 3·3	5	0·27	?	*	*
10. IRELAND, S.	Dublin	59	34	51·2	40·2	45·7	− 3·8	3	0·06	−0·52	31	31
	Parsonstown	57	28	52·0	37·1	44·6	− 4·9	3	0·20	−0·26	32	32
	Waterford	58	33	53·0	39·9	46·5	− 4·0	3	0·07	−0·48	*	*
	Roche's Point	58	35	51·9	41·0	46·9	− 3·7	1	0·02	−0·60	*	*
	Valentia	57	33	53·9	41·4	46·6	− 3·9	5	0·17	−0·63	40	40
	Foynes	55	33	51·9	42·0	47·0	− 2·9	2	0·30	?	*	*

Stations marked ⋔ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

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(Signed) ROBERT H. SCOTT,
Secretary.

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ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 17.] WEEK ENDING MONDAY, MAY 2, 1881. [*Price 2d.* [*Annual subscription, post paid,* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hasting (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland) Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liver pool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	61	35	52	41	47	1 below.	6	8	4 more.	27	25
	2. ENGLAND, N.E.	62	33	54	41	48	2 below.	4	6	0 (average).	27	26
	3. ENGLAND, E.	65	30	57	41	49	2 below.	5	3	1 less.	37	36
	4. MID. COUNTIES	67	31	58	42	50	2 below.	4	2	2 less.	29	28
	5. ENGLAND, S.	66	33	56	43	50	2 below.	4	4	0 (average).	23	23
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	60	31	53	42	47	2 below.	4	5	1 more.	23	22
	7. ENGLAND, N.W.	58	35	53	44	49	2 below.	4	4	0 (average).	23	22
	8. ENGLAND, S.W.	59	39	53	44	49	4 below.	6	7	2 more.	21	20
	9. IRELAND, N.	60	38	55	44	49	1 below.	5	4	2 less.	17	16
	10. IRELAND, S.	61	41	56	46	51	1 below.	4	8	2 more.	23	22

General Remarks.

Weather has been generally cloudy with occasional showers of rain in all districts. On the first day of the period thunderstorms occurred at nearly all our eastern and south-eastern stations. During nearly the whole of the week the weather was mild, but on Monday a change to cold took place all over the country with a return of north-easterly winds.

Temperature was several degrees higher than that of the previous week, but was nevertheless still below the mean for the time of year in all districts. The highest reading recorded (67°) occurred at Nottingham on the 28th. At Strathfield Turgiss the thermometer rose to 66° on the 2nd, and at Cambridge to 65° on the 1st. The lowest readings took place early on the 28th, when a slight frost was experienced at some of our central and eastern stations as well as at Silloth.

Rainfall was rather more than the mean in Scotland and in "England, S.W.," and "Ireland, S.," but about equal to it or a little less in all other districts.

Bright sunshine shows a decrease in the grazing districts, but a slight increase elsewhere; the percentages varying from 16 in Ireland N. to 36 in "England, E."

Depressions observed.—From the commencement of the period until the 28th, pressure was highest to the south-westward of our Islands and lowest over Scandinavia; the wind consequently varied between N.W. and W. and was of little strength. On the 28th, the barometer began to fall briskly in the W. and N., and south-westerly and southerly winds set in as some depressions moved northward outside our western coasts. On the 1st, an arm of low pressure stretched eastward over these Islands, causing fresh westerly winds in the S. and easterly breezes in the extreme N. On the following day, a depression appeared over the N.W. of France, and the wind shifted north-eastward everywhere.

Q 6297. 100.—5/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 2, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, April 26.

Weather varying a good deal; fine at several northern stations as well as in the N.W. and N.E. of France, cloudy or dull elsewhere, with snow at Christiansund, and rain at Biarritz. Fair, but with occasional showers during day.

Temperature fallen generally,—most in the S.E.,—readings ranging from 51° in the S.W. to 42° at Leith. Maxima between 50° and 58° generally, but below 50° on our E. coast.

Wind north-westerly in the N. and W., but drawing into W. in the S. and S.E. as well as over N. France and the North Sea, and into S.W. over Denmark and Sweden. Blowing freshly. Wind veering somewhat later, and drawing into N. in Scotland.

Sea rough in the S.W.

Barometer falling on the eastern shores of the North Sea, rising elsewhere. Readings highest in the S.W., with large depression over Norway. Pressure increasing all day, and disturbance passing eastward.

Wednesday, April 27.

Weather fine in the E. of Great Britain, dull elsewhere, with rain in the S.W. and thick mist in W. Ireland. Fine all day in the extreme E., but cloudy generally, with some showers.

Temperature changed little and irregularly; readings ranging from 53° at Cork to 42° at Shields. Maxima again between 50° and 58° generally.

Wind westerly over nearly the whole of these Islands and the N. of France, and light or moderate in force, but strong north-westerly winds blowing on the eastern shores of the North Sea. Light breezes prevailing on our coasts all day.

Sea moderate to smooth.

Barometer rising everywhere, change being greatest in Norway. Depression still shown over Scandinavia, but apparently filling up, and small disturbance advancing on our W. coasts. Shallow disturbances passing over during day, but readings uniform.

Thursday, April 28.

Weather dull with some rain on the Atlantic coasts, but fine and bright elsewhere. Snow falling at Christiansund and Stockholm. Fine in S.E. all day, but dull elsewhere.

Temperature risen generally, ranging from 53° at Valentia to 42° at Barrow-in-Furness. Maxima higher than of late, reaching 60° in several places and 67° at Nottingham.

Wind light and variable on our coasts, but northerly gale blowing in Bay of Biscay. Light westerly to southerly breezes blowing during the day.

Sea rough on the W. coast of France.

Barometer rising everywhere. Pressure highest off our S.W. coasts and lowest over Baltic, but readings very uniform over these Islands. Slight depression advancing over us in the evening.

Friday, April 29.

Weather fine over France, cloudy or dull generally with much fog over the Channel and rain at Valentia. Dull all day, with rain or thick mist in several places.

Temperature risen in the E., fallen slightly in the W.; readings ranging from 56° at Nottingham to 44° at Wick. Maxima about 60° in the E., below 60° in the W. and S.

Wind backed to S.S.E. and strong in force at Valentia, light or moderate from S.W. elsewhere. Strong southerly wind holding all day at Valentia, but moderate south-westerly breezes continuing elsewhere.

Sea rough off the S.W. of Ireland.

Barometer falling except in France—quickly at Valentia. Large anticyclone lying over France with shallow depression over Scotland. Mercury falling all day—most in W. and S.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, April 30.

Weather fine over France, the S.E. of England, and over Sweden, cloudy or dull elsewhere, with drizzling rain in several places. Cloudy and rainy all day except on our extreme S.E. coasts.

Temperature risen on the Continent and our S.E. coasts, fallen elsewhere; readings ranging from 54° in London to 44° at Wick. Maxima between 50° and 60° generally but 64° in London.

Wind southerly to south-westerly in nearly all places, but south-easterly and easterly in Scotland, moderate or light in force. Veering during the day to W. in the S.W. and S. and blowing rather freshly at Scilly and Valentia.

Sea rough S.W.

Barometer falling everywhere—briskly in the W. Large area of high pressure lying over S.E. France, with depression off W. Ireland. Barometer falling all day and depression advancing over us.

Sunday, May 1.

Weather cloudy or dull except in the S.E., rain falling in the N.E. and over S. Norway. Cloudy and showery all day. Heavy rain in N.E.

Temperature fallen generally; readings ranging from 54° in London to 42° at Wick. Maxima again between 50° and 60° generally, but considerably below in the N.E., and as high as 65° at Cambridge.

Wind south-westerly and westerly all over the southern half of our area, but easterly in Scandinavia and Scotland. Rather fresh in force. Wind a little lighter in evening, but no other change.

Sea rather rough in the W. and S.W.

Barometer falling except over the S. of England and N. of France. Areas of high pressure reported from the N. of Sweden and S.E. of France, with band of low pressure across Ireland and Scotland. Pressure increasing in the N. and decreasing in the S. later.

Monday, May 2.

Weather unsettled, cloudy, and dull except in the far N.; rain and mist reported from several places, and a thunder storm from Biarritz. Dull all day, with rain in the S.E. in the evening.

Temperature fallen generally, ranging from 52° at Cork to 40° at Aberdeen. Maxima rather lower than on 1st, below 50° in the N. and between 50° and 60° elsewhere.

Wind southerly over France and northerly to north-easterly over Norway and these Islands. Moderate in force. Northerly and north-easterly breezes holding all day.

Sea moderate to smooth round our coasts.

Barometer falling over France and our southern counties, rising in the N. and W. Large shallow depression lying over the Channel and N.W. of France. Pressure increasing all day and disturbance passing eastward.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	52	32	49·1	34·1	41·6	−4·9	4	0·77	+0·42	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	57	47	54·1	47·9	51·0	−3·9	5	0·44	+0·04	*	*
	Jersey (Noirmont)	58	43	54·0	45·1	49·6	−2·5	4	0·49	+0·09	34	34

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	57	38	50·4	41·0	45·7	− 1·6	6	0·40	+0·05	*	*
	Aberdeen	60	35	51·1	39·7	45·4	− 2·3	7	0·77	+0·31	27	25
	Leith	61	39	54·1	42·4	48·3	0·0	5	1·10	+0·74	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	36	51·6	40·9	46·3	− 2·6	6	1·86	?	*	*
	Shields	59	38	52·1	41·3	46·7	− 2·4	4	0·56	+0·16	*	*
	Durham	61	33	55·7	40·1	47·9	− 1·5	5	0·51	+0·07	22	21
	York	62	40	58·0	42·3	50·2	+ 0·3	4	0·10	−0·30	32	31
	Spurn Head	58	40	51·7	42·4	47·1	− 2·7	2	0·14	?	*	*
3. ENGLAND, E.	Hillington ℳ	63	34	58·6	40·3	49·5	− 0·9	5	0·17	−0·15	34	33
	Yarmouth	60	38	54·1	42·1	48·1	− 2·5	5	0·29	−0·12	*	*
	Geldeston	62	30	56·4	40·3	48·4	− 2·4	5	0·30	−0·10	40	39
	Cambridge	65	36	60·9	41·0	51·0	− 0·4	5	0·24	−0·12	36	35
	Rothamsted	60	34	55·7	41·0	48·4	− 3·1	5	0·55	+0·13	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	39	58·3	43·1	50·7	+ 0·7	4	0·17	−0·20	*	*
	Nottingham	67	34	60·6	41·3	51·0	− 0·2	4	0·17	−0·25	*	*
	Loughborough	62	31	58·3	42·4	50·4	− 0·7	3	0·15	−0·25	*	*
	Leicester	61	32	58·2	41·7	50·0	− 1·5	4	0·20	−0·11	26	25
	Birmingham (Oscott)	61	38	57·2	41·6	49·4	− 1·9	2	0·10	−0·38	*	*
	Cheadle ℳ	59	37	54·5	40·5	47·5	− 3·9	4	0·30	?	*	*
	Churchstoke ℳ	61	38	55·3	42·1	48·7	− 2·7	4	0·20	?	30	29
	Hereford ℳ	64	39	58·7	43·6	51·3	− 0·8	3	0·14	−0·26	*	*
	Cirencester	62	39	57·3	42·1	49·7	− 2·3	4	0·36	−0·09	29	28
	Oxford	60	37	57·1	42·4	49·8	− 2·4	4	0·28	−0·11	29	28
5. ENGLAND, S.	London†	64	38	59·0	42·7	50·9	− 1·1	4	0·61	+0·12	25	25
	Marlborough ℳ	62	36	56·7	42·1	49·4	− 2·6	4	0·56	+0·08	*	*
	Strathfield Turgiss ℳ	66	33	60·4	40·9	50·7	− 1·3	5	0·25	−0·20	*	*
	Dover	56	42	52·1	44·1	48·1	− 2·8	4	0·50	+0·10	*	*
	Hastings (St. Leonard's)	56	38	52·7	43·1	47·9	− 3·9	4	0·49	+0·08	*	*
	Southampton	62	41	57·4	44·0	50·7	− 1·1	4	0·39	?	21	21
	Hurst Castle	55	42	53·1	44·9	49·0	− 3·0	3	0 29	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	55	33	52·2	41·3	46·8	− 1·1	4	0·18	?	*	*
	Glasgow	57	36	52·8	41·4	47·1	− 1·9	5	0·60	+0·05	19	18
	Ardrossan	53	37	50·7	41·9	46·3	− 2·6	5	0·54	+0·04	*	*
	Silloth (Cumberland)	60	31	54·2	41·6	47·9	− 1·1	4	0·58	+0·18	18	17
	Douglas (Isle of Man)	57	40	53·0	42·9	48·0	− 1·9	4	0·66	+0·24	33	32
7. ENGLAND, N.W.	Barrow-in-Furness	57	40	53·1	43·4	48·3	− 1·7	5	0·62	?	*	*
	Stonyhurst	56	38	53·4	41·3	47·4	− 2·9	3	0·48	−0·06	24	23
	Blackpool ℳ	56	43	52·0	44·3	48·2	− 2·1	3	0·38	+0·03	*	*
	Manchester	58	35	54·6	41·0	47·8	− 3·2	3	0·32	−0·13	*	*
	Liverpool Obsy (Bidston)	58	43	54·9	45·1	50·0	− 1·0	4	0·33	+0·05	*	*
	Llandudno ℳ	58	42	54·1	45·3	49·7	− 1·1	3	0·25	+0·15	22	21
	Holyhead	54	44	51·4	45·1	48·3	− 2·7	4	0·52	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	51	43	50·0	44·7	47·4	− 5·3	5	0·66	+0·17	26	25
	Arlington (N. Devon)	58	39	53·6	42·4	48·0	− 4·4	6	0·88	?	*	*
	Falmouth	55	45	53·7	46·4	50·1	− 3·1	6	0·62	+0·06	22	22
	Plymouth	59	43	54·8	45·4	50·1	− 2·0	6	0·85	+0·36	14	14
	Prawle Point	57	40	52·7	42·9	47·8	− 4·7	5	0·43	?	*	*
9. IRELAND, N.	Londonderry	59	39	56·0	42·6	49·3	− 0·2	5	0·23	−0·28	*	*
	Mullaghmore	58	42	54·9	45·4	50·2	+ 0·3	5	0·33	?	*	*
	Markree Castle	60	41	55·8	44·1	50·0	0·0	5	0·40	−0·08	17	16
	Brookeborough	57	39	54·7	43·1	48·9	− 0·9	5	0·51	?	*	*
	Armagh	58	39	54·6	43·9	49·3	− 0·7	4	0·23	−0·18	16	15
	Donaghadee	57	38	52·4	42·4	47·4	− 2·4	6	0·48	?	*	*
10. IRELAND, S.	Dublin	59	42	54·9	45·8	50·4	− 0·5	5	0·43	−0·09	18	17
	Parsonstown	61	41	56·7	44·1	50·4	− 0·1	6	1·10	+0·63	20	19
	Waterford	59	41	55·2	45·0	50·2	− 1·3	7	0·90	+0·36	*	*
	Roche's Point	59	44	56·1	46·3	51·2	− 0·6	2	0·61	−0·02	*	*
	Valentia	58	43	56·3	46·4	51·4	− 0·3	4	0·92	+0·17	32	31
	Foynes	59	43	55·6	45·4	50·5	− 0·4	4	0·94	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

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Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hasting (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland) Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	34	55	40	48	1 below.	3	3	1 less.	58	53
	2. ENGLAND, N.E.	65	34	54	41	48	3 below.	3	2	2 less.	53	49
	3. ENGLAND, E.	69	26	58	39	49	4 below.	3	1	3 less.	52	48
	4. MID. COUNTIES	69	32	60	40	50	3 below.	2	2	3 less.	54	52
	5. ENGLAND, S.	71	29	60	42	51	2 below.	2	1	4 less.	55	53
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	64	33	55	41	48	2 below.	4	10	5 more.	65	60
	7. ENGLAND, N.W.	62	35	55	43	49	3 below.	3	12	8 more.	60	56
	8. ENGLAND, S.W.	64	40	57	45	51	3 below.	2	1	4 less.	61	59
	9. IRELAND, N.	68	34	59	43	51	0 (average).	4	6	0 (average).	55	51
	10. IRELAND, S.	67	39	60	45	52	0 (average).	2	2	3 less.	60	57

General Remarks.

Weather has been, on the whole, fine and bright. Some rain occurred in the W. and N. during the earlier part of the period, and in the N.W. of England and W. of Scotland the fall was heavy.

Temperature has been equal to the mean for the season in Ireland, but again a little below it in all other parts of the Kingdom. The highest of the maxima occurred generally on the 7th, when the thermometer rose to 71° at Strathfield Turgiss, to 70° at Southampton, and to 68° or 69° at several other southern and central stations as well as in the N. of Ireland. Temperature was lowest during the first few days, and at Hillington a shade reading as low as 26° was recorded early on the 4th; at other south-eastern and central stations the minima varied from 27° to 32°. On the grass the readings were, of course, much lower.

Rainfall was more than the mean in "Scotland, W." and "England, N.W." and equal to it in "Ireland, N."; but in all other districts the fall was less.

Bright sunshine was much more prevalent than of late, the percentages ranging from 60 in "Scotland, W." to 49 in "England, N.E." and "England, E."

Depressions observed.—During the first few days of the period, a rather extensive, but not deep, depression was passing slowly from W. to E. across Scotland, and some shallow subsidiary disturbances over England. These caused fresh or strong winds from between W. and S. By the evening of the 7th, however, the depressions had disappeared, and from that time until the close of the period the wind was anticyclonic, being moderate from N.W. and N. in the E., from E. in the S., and from S. in the W.

Q 6431 100.—5/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending May 9, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 3.

Weather fine over the northern and central districts, cloudy or dull generally, with rain over France. Fine at several northern stations all day, but cloudy in most places, with rain in the W. & S.W.

Temperature fallen generally, change considerable in S.E.; readings varying from 50° in the S.W. to 40° in the N.E. Maxima ranging from 45° in the N. and E. to 60° in London and 56° on our S.W. coasts.

Wind variable in Scandinavia and on our western coasts, northerly over Great Britain, France, and N. Germany. Moderate generally, but blowing strongly in the Straits of Dover and the Bay of Biscay. Southerly wind springing up in Ireland later.

Sea rough at Cape Gris Nez and Biarritz.

Barometer rising over the whole of western Europe,—quickly in the E. Area of high pressure lying over our western and northern districts, with depression over Denmark. Decrease occurring in Ireland later.

Wednesday, May 4.

Weather fine in the extreme S.E., cloudy or dull generally, with rain in the W. and S.W. Clearing in the W. and S. later, but dull and rainy all day in the E. and N.

Temperature risen in our south-eastern and southern districts, and in W. France, fallen elsewhere. Rising a good deal in the W. and S. later, and maxima varying from about 50° in the N. to 59° in the S.W.

Wind westerly in the W. and S.W., southerly in the E. and N. of these Islands, and north-westerly in N. Germany. Moderate generally. Moderate to fresh westerly to southerly winds continuing all day.

Sea slight.

Barometer rising over France, our S.E. coasts, and N. Germany, falling elsewhere, and depressions passing from W. to E. across Scotland and Wales. Depressions passing eastward later, and pressure recovering in W. and S.W.

Thursday, May 5.

Weather dull and rainy in Ireland and W. Scotland, cloudy in W. England and fine elsewhere. Cloudy all day except in the extreme S.E., and rain occurring except in the S. & S.E.

Temperature risen generally, and readings ranging from 54° at Scilly to 44° at Wick. Maxima exceeding 60° over Central England, but between 49° and 59° elsewhere.

Wind south-westerly and moderate to strong in force on our western and northern coasts, light from W. over the N. of France and the Channel. Little change during the day.

Sea rough off the W. coast of Ireland.

Barometer falling over Ireland, rising in all other places. Anticyclone lying over France with very slight depression over the North Sea and large disturbance off our W. coasts. Pressure giving way slowly during day and disturbance passing northward.

Friday, May 6.

Weather fine over Ireland, Scotland, and the E. of France, cloudy or dull elsewhere. Sky clearing during day; fine and bright generally though with some showers in the N.

Temperature risen nearly everywhere — quickly in the E. Readings ranging from 59° at Yarmouth to 46° at Wick. Maxima between 55° and 60° generally, but 68° in London and Yarmouth and 69° at Cambridge.

Wind between S.W. and N.W. on all our coasts, but drawing into S. in Denmark and Scandinavia. Blowing freshly at our stations. Strong westerly winds holding all day.

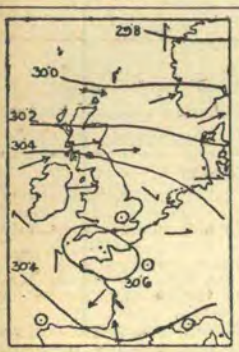
Sea rough in the S.W. and W.

Barometer falling over Norway and Sweden, rising elsewhere. Anticyclone forming over France and depression in the N. passing away. Pressure increasing all day, and readings in France exceeding 30·4 ins.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, May 7.

Weather very fine in nearly all places, but dull on some parts of our S.W. and N. coasts. Very fine all day except in W. Ireland, and sky clear everywhere in evening. No rain falling.

Temperature fallen except in the N. of Scotland; readings ranging from 56° at Yarmouth to 48° at Nairn. Maxima between 55° and 65° in most districts, but thermometer reaching 69° in London.

Wind fresh to strong from W. over the northern parts of the Kingdom and the eastern shores of the North Sea, light and variable over the Midland Counties, and light northerly in the S. North-westerly gale experienced in N. Scotland during day.

Sea rough in the N.W. and N.

Barometer rising over the whole of western Europe, but depression shown in N. Sweden and brisk fall occurring there. Anticyclone passing northward over these Islands. Pressure giving way over France later but increase continuing here.

Sunday, May 8.

Weather very fine and bright in almost all places, but some cloud and fog reported from parts of Scandinavia. Very fine weather continuing all day.

Temperature changed rather irregularly, but risen at most stations; readings ranging from 57° at Dover to 47° at Ardrossan. Maxima between 55° and 65°.

Wind north-westerly and northerly over the North Sea and our E. coasts, north-easterly in the N.E. of France, and easterly over the W. of that country and the Channel. Light or moderate except in the extreme N., and little change occurring later.

Sea slight, except at Wick and the Skaw.

Barometer falling in the S. of Sweden and N. Germany as well as in S. France, rising elsewhere. Large anticyclone over us, with the highest readings on our N.W. coasts. Pressure decreasing during day.

Monday, May 9.

Weather fine in nearly all parts of western Europe, but dull over Scandinavia. Very fine all day, but clouding over in the S.E. in the evening, and slight shower falling at Yarmouth.

Temperature fallen several degrees, except in W. Ireland; readings ranging from 62° at Valentia to 47° on our E. coast. Readings low all day in England. Maxima below 50° in the E., but as high as 67° at Valentia.

Wind northerly all over our eastern districts, the North Sea, and Netherlands, but drawing into E. over the Channel and our W. coasts. Little change later, northerly to easterly winds holding firmly.

Sea slight.

Barometer rising over the whole of western Europe; pressure highest (30·7 ins.) in Scotland and lowest (30·0 ins.) over the Baltic and S. France. Mercury giving way in the S.E. later, little other change.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head										*	*
	Stornoway										*	*
	Wick	57	31	52·3	36·7	44·5	−3·0	3	0·37	+0·06	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	43	56·7	47·7	52·2	−2·8	1	0·06	−0·25	*	*
	Jersey (Noirmont)	63	43	56·9	43·4	51·7	−1·3	1	0·05	−0·35	62	60

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°			Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	34	54·0	40·4	47·2	− 1·3	4	0·35	0·00	*	*
	Aberdeen	62	34	55·3	39·6	47·5	− 1·5	1	0·23	−0·22	58	53
	Leith	62	37	56·9	41·3	49·1	− 0·4	4	0·30	−0·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	58	36	52·4	41·9	47·2	− 2·9	3	0·33	?	*	*
	Shields	60	34	54·0	41·0	47·5	− 2·8	3	0·23	−0·17	*	*
	Durham											
	York	65	36	57·6	40·0	48·8	− 2·2	2	0·24	−0·16	53	49
	Spurn Head	60	37	53·6	42·4	48·0	− 2·9	3	0·08	?	*	*
3. ENGLAND, E.	Hillington ⌘	66	26	58·0	36·6	47·0	− 4·7	3	0·16	−0·28	49	46
	Yarmouth	68	36	55·1	42·0	48·6	− 3·0	2	0·03	−0·37	*	*
	Geldeston	68	30	57·9	39·7	48·8	− 3·3	3	0·03	−0·26	55	52
	Cambridge	69	27	60·3	38·1	49·2	− 3·6	1	0·17	−0·21	47	45
	Rothamsted	68	28	59·1	37·9	48·5	− 4·5	1	0·07	−0·34	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	32	60·6	37·7	49·2	− 1·9	2	0·14	−0·26	*	*
	Nottingham	67	32	61·1	39·4	50·3	− 2·2	2	0·19	−0·26	*	*
	Loughborough	69	33	60·1	40·9	50·5	− 2·0	2	0·11	−0·30	*	*
	Leicester	65	34	59·5	41·0	50·3	− 2·5	1	0·18	−0·17	48	45
	Birmingham (Oscott)	64	35	58·9	40·9	49·9	− 2·6	4	0·20	−0·30	*	*
	Cheadle ⌘	63	34	56·7	39·5	48·1	− 5·4	3	0·54	?	*	*
	Churchstoke ⌘	63	34	58·7	38·6	48·6	− 3·9	3	0·06	?	59	56
	Hereford ⌘	68	36	62·9	41·0	52·0	− 1·4	1	0·04	−0·36	*	*
	Cirencester	69	32	61·8	41·0	51·4	− 1·9	1	0·07	−0·38	54	51
	Oxford	66	34	62·4	41·6	52·0	− 1·4	1	0·05	−0·35	60	57
5. ENGLAND, S.	London†	69	31	61·6	40·3	51·0	− 2·0	1	0·05	−0·35	51	49
	Marlborough ⌘	66	35	60·7	40·8	50·8	− 2·5	1	0·03	−0·45	*	*
	Strathfield Turgiss ⌘	71	29	64·7	37·9	51·3	− 1·9	1	0·05	−0·35	*	*
	Dover	59	38	55·1	43·7	49·4	− 2·6	2	0·09	−0·33	*	*
	Hastings (St. Leonard's)	63	37	55·9	42·8	49·4	− 3·5	3	0·05	−0·35	*	*
	Southampton	70	38	62·7	42·2	52·5	− 0·3	2	0·05	?	59	57
	Hurst Castle	63	39	57·1	43·0	50·1	− 2·9	1	0·04	?	*	*
6. SCOTLAND, W.	Laudale (Loch Suvart)	62	38	54·8	41·4	48·1	− 0·9	5	1·20	?	*	*
	Glasgow	64	36	56·2	41·4	48·8	− 1·4	4	0·70	+0·15	60	55
	Ardrossan	58	35	54·7	41·1	47·9	− 2·1	4	1·03	+0·53	*	*
	Silloth (Cumberland)	60	33	56·0	39·6	47·8	− 2·6	4	1·11	+0·71	62	57
	Douglas (Isle of Man)	60	39	54·9	40·6	47·8	− 3·2	3	0·94	+0·54	72	67
7. ENGLAND, N.W.	Barrow-in-Furness	62	37	54·9	42·4	48·7	− 2·3	3	1·17	?	*	*
	Stonyhurst	62	36	55·7	39·4	47·6	− 3·9	3	1·97	+1·44	55	51
	Blackpool ⌘	60	35	53·5	41·1	47·3	− 4·2	4	1·22	+0·86	*	*
	Manchester	61	37	55·4	40·4	47·9	− 4·2	4	0·97	+0·55	*	*
	Liverpool Obs' (Bidston)	59	39	55·1	43·7	49·4	− 2·8	4	1·61	+1·31	*	*
	Llandudno ⌘	60	41	56·1	45·1	50·6	− 1·3	2	0·47	+0·09	65	61
	Holyhead	59	42	54·3	45·1	49·7	− 2·3	3	0·95	+0·60	*	*
8. ENGLAND, S.W.	Pembroke	61	44	53·7	45·6	49·7	− 4·2	2	0·09	−0·39	69	66
	Arlington (N. Devon)	64	40	56·9	42·7	49·8	− 3·9	4	0·22	?	*	*
	Falmouth	61	45	57·1	46·9	52·0	− 2·5	1	0·05	−0·51	64	62
	Plymouth	65	41	59·7	44·9	52·3	− 1·2	3	0·07	−0·41	51	49
	Prawle Point	61	43	56·0	44·9	50·5	− 3·0	2	0·03	?	*	*
9. IRELAND, N.	Londonderry	68	36	60·3	41·7	51·0	+ 0·3	3	0·35	−0·13	*	*
	Mullaghmore	65	40	57·7	46·7	52·2	+ 1·2	4	0·68	?	*	*
	Markree Castle	68	34	60·2	42·1	51·2	+ 0·2	3	0·48	−0·04	49	46
	Brookeborough	66	37	59·2	42·8	51·0	+ 0·2	4	0·78	?	*	*
	Armagh	63	38	58·5	43·4	51·0	− 1·1	4	0·66	+0·27	60	56
	Donaghadee	61	38	56·4	42·0	49·2	− 1·8	4	0·87	?	*	*
10. IRELAND, S.	Dublin	62	39	58·4	45·7	52·1	+ 0·3	3	0·28	−0·22	66	62
	Parsonstown	67	39	60·7	43·4	52·1	+ 0·9	3	0·66	+0·16	52	49
	Waterford	67	40	60·3	44·0	52·2	− 0·3	3	0·15	−0·39	*	*
	Roche's Point	61	41	59·1	45·4	52·3	− 0·3	1	0·09	−0·59	*	*
	Valentia	67	43	60·1	46·1	53·1	+ 0·6	3	0·19	−0·51	63	60
	Foynes	67	42	59·6	43·4	51·5	− 0·5	0	—	?	*	*

Stations marked ⌘ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine Values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Note.—Sunshine Values are now received from Plymouth.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 19.] WEEK ENDING MONDAY, MAY 16, 1881. [*Price 2d.*
[*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland) Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	30	59	41	50	0 (average).	2	6	2 more.	52	46
	2. ENGLAND, N.E.	74	30	58	42	50	2 below.	3	2	2 less.	45	41
	3. ENGLAND, E.	74	27	60	39	50	4 below.	1	less than ½	4 less.	47	43
	4. MID. COUNTIES	75	28	62	40	51	3 below.	2	2	3 less.	47	44
	5. ENGLAND, S.	73	28	59	41	50	4 below.	2	1	3 less.	45	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	32	57	42	50	2 below.	3	8	4 more.	53	47
	7. ENGLAND, N.W.	62	32	56	43	50	3 below.	2	3	2 less.	54	49
	8. ENGLAND, S.W.	65	33	57	44	51	4 below.	2	3	2 less.	74	69
	9. IRELAND, N.	70	32	59	42	51	1 below.	4	7	3 more.	51	49
	10. IRELAND, S.	68	32	59	44	52	2 below.	4	10	4 more.	61	56

General Remarks.

Weather was very fine and bright during the first few days but subsequently became dull, unsettled, and showery in nearly all places.

Temperature was equal to the mean in "Scotland, E.," but still a little below it in all other districts. The maxima for the week occurred on the 12th or 13th, when the thermometer rose to 75° at Nottingham and Hereford, and to between 70° and 74° at most of our southern, central, and eastern stations, as well as at Aberdeen and Londonderry. The minima occurred on the 11th, when a sharp frost was experienced, temperature falling to 27° or 28° over central, southern, and eastern England, and to 32° or below in all except the extreme south-western parts of the country.

Rainfall was rather more than the mean in Ireland and Scotland, but less over England.

Bright sunshine shows a decrease in all districts except "England, S.W.," but the percentages were nowhere small, ranging from about 43 in the "Wheat-producing" districts to 69 in the S.W. of England.

Depressions observed.—Until the 12th, the wind continued anticyclonic, blowing lightly from the eastward in England and the S. of Ireland, and from the westward in Scotland. By the 13th, however, conditions had changed considerably and the westerly wind had extended to all our stations. On the 15th a deep depression travelled from W. to E. across the northern parts of England and Ireland causing strong south-westerly to north-westerly winds or fresh gales in very many parts of the country.

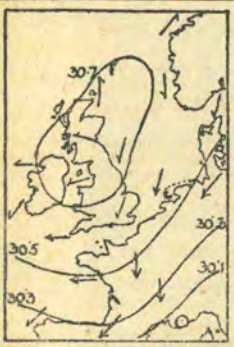
Q 6521. 100.—5/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 16, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, May 10.

Weather cloudy in a few places but generally fine and bright over western Europe. Rather cloudy in London during day, but fine in most places and dry everywhere.

Temperature fallen at all stations, change considerable in central districts. Readings ranging from 57° at Valentia to 42° at Liverpool. Maxima between 50° and 60° generally, but below 50° in the N.E. of England and above 60° in N. Ireland.

Wind northerly and north-easterly on both shores of the North Sea and easterly over France and our S.W. and W. coasts. Blowing strongly in the S. Southerly breezes springing up in Scotland later.

Sea rough at some southern stations.

Barometer rising in all places, large anticyclone (30·7 ins.) lying over the northern parts of the Kingdom with comparatively low pressures over S. France and N. Sweden. Pressure decreasing except in S.E. during day.

Wednesday, May 11.

Weather cloudy over Scandinavia, still fine and bright elsewhere. Much cloud appearing in the N.W. and N. later, but not extending to the S. and S.E. Still dry everywhere.

Temperature risen fast in Scotland, changed irregularly elsewhere; readings ranging from 60° at Wick to 42° at York. Thermometer rising fast during day, and maxima between 60° and 68° registered in Scotland and the N. of England during day.

Wind westerly to south-westerly all over our northern coasts and Scandinavia, light and variable at our more central districts and north-easterly to easterly over France. Light or moderate generally.

Sea slight.

Barometer falling except over France and our S. coast, area of high pressure (30·6 ins.) lying over these Islands with depressions in the far N. and far S. Pressure decreasing all day.

Thursday, May 12.

Weather very fine, except in the extreme N. of these Islands and at the Scandinavian stations. Overcast skies reported from many parts of our western and northern coasts later, but no rain falling.

Temperature risen generally, ranging from 63° at Aberdeen to 46° at Cambridge. Maxima exceeding 70° in the E. of Scotland and over central England, and exceeding 60° except at the coast stations.

Wind south-westerly on our northern coasts and over Scandinavia, light and variable over England and Ireland, and north-easterly in France. Light or moderate except in W. Norway. Little change later.

Sea slight.

Barometer falling everywhere. Band of high pressure (30·4 ins.) stretching across Ireland, England, and the North Sea to N. Germany, with low readings in the far N. and far S. Pressure giving way all day.

Friday, May 13.

Weather cloudy in the W. of Ireland and Scotland, fine elsewhere. Cloud extending to Scotland and N. of England later, and rain falling in extreme W., but sky nearly clear in the S.

Temperature risen in the E. and S.E., fallen generally; readings ranging from 61° at Nottingham to 49° at Ardrossan. Maxima high, exceeding 70° over central England.

Wind still easterly over France, but south-westerly and westerly over the whole of these Islands, light or moderate generally, but blowing freshly in N. Ireland. Wind increasing in most places later.

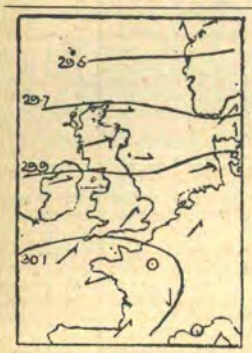
Sea slight all round our coasts.

Barometer fallen everywhere, area of high readings lying over the S. of these Islands, the N. of France, and N. Germany, with large depression in far N. Pressure giving way quickly in N. later, and deep depression appearing on our N. coast.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 14.

Weather still fine over France, on the S.E. coast of England, and in E. Scotland, but dull elsewhere, with rain in S. Ireland and N. Wales. Fine all day in S.E., dull and showery elsewhere.

Temperature risen again in the S.E. and over France, fallen generally; readings ranging from 57° at Nottingham to 48° at Nairn. Maxima lower than on 13th, varying between 65° and 67° over central England.

Wind westerly all over these Islands and the North Sea, but still easterly in France. Light or moderate in force. Wind backing to S. at Valentia in the evening, but light westerly breezes holding elsewhere.

Sea slight.

Barometer falling everywhere—rather quickly in the W. Anticyclone lying over France, with deep depression in far N. Pressure steady in W. during day, but decreasing again at night.

Sunday, May 15.

Weather still fine in France, very unsettled over these Islands, sky overcast, and rain falling in N.W. and N.E. Cloudy, showery, and squally, all day, with heavy rain in Scotland.

Temperature risen in France, fallen elsewhere, ranging from 58° at Yarmouth to 46° at Aberdeen. Maxima between 55° and 65° generally.

Wind south-westerly on our S.W. coasts, southerly in most other places, and south-easterly in north Ireland. Blowing strongly in S.W., but moderate generally. Wind veering during day and westerly gales felt in the S.W. and S.

Sea very rough in the S.W. and W.

Barometer falling everywhere—rapidly in Ireland and briskly generally. Deep depression appearing in N.W. Depression passing slowly eastward later and pressure recovering in S.W.

Monday, May 16.

Weather exceedingly unsettled and showery over the whole of western Europe except the S.E. of France. Some improvement taking place in the W. later, but showery all day elsewhere.

Temperature fallen in all our districts, readings ranging from 52° in the S. to 42° in the North. Maxima lower than on 15th, below 60° everywhere.

Wind northerly all over Scotland and Ireland, westerly over the greater part of England and France, and southerly on the eastern shores of the North Sea. Blowing strongly and reaching a gale in Scotland. Northerly and north-westerly strong winds and gales holding all day generally, but wind backing in Ireland in evening.

Sea rough all round our coasts.

Barometer still falling in the S.E. and in the countries to the eastward of the North Sea, and depression shown off N.E. coasts, but recovering elsewhere. Recovery almost ceasing in W. at night.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	65	32	56·0	41·9	49·0	+0·3	5	1·49	+1·11	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	59	45	55·0	48·6	51·8	−4·0	3	0·15	−0·12	*	*
	Jersey (Noirmont)	60	42	56·9	44·0	50·5	−3·6	1	0·05	−0·36	72	69

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	66	32	56·6	42·7	49·7	+ 0·5	2	0·55	+0·19	*	*
	Aberdeen	72	30	59·9	37·3	48·6	− 1·6	3	1·09	+0·64	52	46
	Leith	67	37	60·6	43·3	52·0	+ 1·4	2	0·29	−0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	63	33	56·9	41·4	49·2	− 2·1	3	0·45	?	*	*
	Shields	68	33	57·6	42·9	50·3	− 1·1	3	0·16	−0·24	*	*
	Durham	74	30	58·7	38·1	48·4	− 3·1	3	0·25	−0·17	42	38
	York	73	38	62·1	43·6	52·9	+ 0·8	2	0·20	−0·20	48	44
	Spurn Head	67	37	55·1	43·6	49·4	− 2·6	3	0·10	?	*	*
3. ENGLAND, E.	Hillington Ⓜ	73	27	62·2	38·2	50·2	− 2·9	1	0·04	−0·51	41	38
	Yarmouth	62	39	56·7	43·6	50·2	− 2·8	1	0·01	−0·39	*	*
	Geldeston	68	30	58·9	39·6	49·3	− 4·2	0	—	−0·26	55	51
	Cambridge	74	28	63·3	38·4	50·9	− 3·1	2	0·03	−0·35	44	41
	Rothamsted	72	28	60·8	38·1	49·5	− 4·5	2	0·10	−0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	28	64·7	40·6	52·7	+ 0·2	3	0·23	−0·15	*	*
	Nottingham	75	28	64·4	40·0	52·2	− 1·3	3	0·07	−0·40	*	*
	Loughborough	73	28	63·4	40·3	51·9	− 1·9	2	0·09	−0·36	*	*
	Leicester	71	29	61·1	40·8	51·0	− 3·0	1	0·10	−0·30	32	29
	Birmingham (Oscott)	73	33	61·1	40·5	50·8	− 2·8	3	0·07	−0·43	*	*
	Cheadle Ⓜ	69	33	59·1	39·4	49·3	− 4·5	4	0·23	?	*	*
	Churchstoke Ⓜ	70	30	60·4	37·9	49·2	− 4·6	3	0·30	?	57	52
	Hereford Ⓜ	75	28	64·1	40·3	52·2	− 2·2	2	0·03	−0·39	*	*
	Cirencester	73	28	61·9	38·8	50·4	− 4·1	2	0·33	−0·15	54	50
	Oxford	72	31	61·9	41·1	51·5	− 3·0	1	0·01	−0·39	46	43
5. ENGLAND, S.	London†	73	30	62·7	41·6	52·2	− 1·9	1	0·07	−0·33	35	33
	Marlborough Ⓜ	72	28	61·4	?38·1	?49·8	? − 4·7	1	0·15	−0·33	*	*
	Strathfield Turgiss Ⓜ	72	28	63·8	37·1	50·5	− 3·8	2	0·08	−0·27	*	*
	Dover	58	40	54·7	43·7	49·2	− 3·8	2	0·10	−0·35	*	*
	Hastings (St. Leonard's)	59	37	56·2	42·1	49·2	− 4·5	2	0·05	−0·33	*	*
	Southampton	67	32	61·2	40·7	51·0	− 2·8	2	0·11	?	55	51
	Hurst Castle	58	32	56·0	40·9	48·5	− 5·5	2	0·07	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	38	55·5	43·8	49·7	− 0·7	2	0·41	?	*	*
	Glasgow	64	39	58·0	43·1	50·6	− 0·8	4	0·82	+0·24	38	34
	Ardrossan	57	37	54·6	41·9	48·3	− 2·7	4	0·66	+0·16	*	*
	Silloth (Cumberland)	63	33	58·7	40·5	49·6	− 1·9	4	0·98	+0·58	56	50
	Douglas (Isle of Man)	65	32	57·7	40·4	49·1	− 2·9	3	0·97	+0·57	64	58
7. ENGLAND, N.W.	Barrow-in-Furness	64	37	57·3	44·6	52·0	0·0	3	0·84	?	*	*
	Stonyhurst	64	34	56·9	40·4	48·7	− 3·8	4	1·44	+0·90	53	48
	Blackpool Ⓜ	58	32	53·8	39·9	46·9	− 5·7	4	0·79	+0·41	*	*
	Manchester	66	35	58·2	40·5	49·4	− 4·1	4	0·84	+0·44	*	*
	Liverpool Obs' (Bidston)	61	38	55·7	44·6	50·2	− 3·0	4	0·45	+0·14	*	*
	Llandudno Ⓜ	65	38	57·0	42·9	50·0	− 2·9	4	0·76	+0·39	55	50
	Holyhead	60	41	54·7	44·6	49·7	− 3·2	4	0·95	+0·60	*	*
8. ENGLAND, S.W.	Pembroke	61	41	53·9	46·7	50·3	− 4·2	3	0·42	−0·06	68	63
	Arlington (N. Devon)	65	33	57·4	40·3	48·9	− 6·0	2	0·61	?	*	*
	Falmouth	64	43	57·3	46·1	51·7	− 3·8	2	0·35	−0·21	76	72
	Plymouth	62	38	59·2	44·8	52·0	− 2·8	1	0·14	−0·31	77	73
	Prawle Point	60	40	56·1	43·7	49·9	− 4·7	1	0·06	?	*	*
9. IRELAND, N.	Londonderry	70	38	61·6	42·5	52·1	+ 0·4	4	0·66	+0·21	*	*
	Mullaghmore	63	39	57·4	46·6	52·0	0·0	4	0·51	?	*	*
	Markree Castle	66	32	59·7	38·7	49·2	− 2·8	4	0·87	+0·32	54	49
	Brookeborough	68	35	59·6	40·4	50·0	− 1·5	3	0·66	?	*	*
	Armagh	65	39	58·9	43·1	51·0	− 1·2	3	0·66	+0·31	54	49
	Donaghadee	64	38	57·0	41·6	49·3	− 2·7	3	0·58	?	*	*
10. IRELAND, S.	Dublin	66	35	59·6	44·8	52·2	− 0·3	4	0·41	−0·09	68	62
	Parsonstown	65	35	59·7	42·7	51·2	− 1·0	4	0·97	+0·45	58	53
	Waterford	68	32	60·6	43·1	51·9	− 1·3	4	0·86	+0·32	*	*
	Roche's Point	62	38	59·9	44·7	52·3	− 1·1	3	0·79	+0·09	*	*
	Valentia	62	38	57·4	44·6	51·0	− 2·5	4	1·62	+1·07	56	52
	Foynes	65	40	58·6	41·9	50·3	− 2·7	4	1·45	?	*	*

Stations marked Ⓜ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine Values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 20.] WEEK ENDING MONDAY, MAY 23, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857–69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	73	33	59	42	50	1 below.	4	8	4 more.	50	43
	2. ENGLAND, N.E.	71	33	60	43	52	2 below.	3	1	3 less.	66	59
	3. ENGLAND, E.	73	31	63	43	53	2 below.	3	5	1 more.	67	61
	4. MID. COUNTIES	74	33	64	42	53	2 below.	3	5	0 (average).	66	60
	5. ENGLAND, S.	74	32	62	45	53	2 below.	3	5	2 more.	64	59
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	71	36	58	44	51	1 below.	4	10	3 more.	61	54
	7. ENGLAND, N.W.	71	35	60	45	53	2 below.	3	7	1 more.	65	59
	8. ENGLAND, S.W.	71	40	58	47	53	4 below.	3	5	1 more.	72	67
	9. IRELAND, N.	76	36	60	44	52	1 below.	4	6	1 more.	62	55
	10. IRELAND, S.	73	39	61	46	54	1 below.	4	4	1 less.	73	66

General Remarks.

Weather during the first few days was dull, cold, and showery, with thunder in many places, but during the later part it was warm and brilliantly fine.

Temperature, on the whole, was again a little below the mean in all districts. The readings were lowest at the commencement of the period, when minima ranging between 31° and 33° were registered in all the "Wheat-producing" districts. The maxima occurred on the 23rd, when the thermometer rose to 76° at Londonderry, to 74° at several of the central and southern English stations, and to between 71° and 73° elsewhere.

Rainfall was slightly more than the mean except in "England, N.E.," the "Midland Counties," and "Ireland, S."

Bright sunshine was more prevalent than it was during last week in all districts except "Scotland, E." The percentages were rather high, varying from 66 or 67 in the S.W. to 43 in the extreme N.

Depressions observed.—During the earlier part of the period a rather large depression (gradually filling up) lay over Scotland, while several small subsidiary disturbances passed from W. to E. across England. Fresh to strong south-westerly winds consequently blew at all the English and Irish stations, and moderate easterly winds in the N. of Scotland. From the 21st until the close of the week, however, an anticyclonic system prevailed, fresh easterly winds being experienced in the S, and southerly breezes in the W.

Q 6623. 100.—5/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending May 23, 1881.

Synoptic Weather Charts.—8 a.m.		**Weather** during the 24 hours succeeding the date of the Charts.
BAROMETER AND WIND.	CLOUD, RAIN, SEA, AND TEMPERATURE.	
		Tuesday, May 17. *Weather* fine over France and our S.E. coasts, dull and wet in most other places. Squally, unsettled showery weather prevailing everywhere during day. *Temperature* risen somewhat in the extreme S. and W., fallen elsewhere; readings ranging from 55° in London to 39° at Stornoway. Maxima generally between 50° and 55°, but higher at the inland stations. *Wind* south-westerly and southerly all over the country, blowing strongly in the W. and S.W.; veering somewhat during day, and blowing freshly. *Sea* rough on the W. and S.W. coasts of these Islands and Norway. *Barometer* risen over France and our eastern and central districts, fallen over Scandinavia and our W. coasts. Three depressions shown,—one over N. Norway, a second over S. Sweden, and a third approaching our N.W. coasts.
		Wednesday, May 18. *Weather* cloudy generally and wet over the S. and S.E. of England and N. Germany. Fine in the N.E. and N.W. during day, showery elsewhere. *Temperature* risen except in the W., readings ranging from 55° over central England to 43° at Wick. Maxima higher than on 17th, slightly exceeding 60° at inland stations. *Wind* south-westerly in nearly all places, but easterly in the W. of Norway and at Wick. Blowing strongly except on our northern coasts. Fresh to strong south-westerly winds all day except in N. *Sea* rough W. and S. *Barometer* falling everywhere; depressions still shown over Scandinavia and off our N.W. coasts, with anticyclone over France. Pressure changing very little during day, but beginning to increase in the N.
		Thursday, May 19. *Weather* improved considerably; fine over the greater part of England, but showery and dull in W. and N. Rainy and foggy to the eastward of the North Sea. Fine in S. and S.E. all day. *Temperature* fallen slightly, readings ranging from 54° in the S. to 42° in the N. Maxima again exceeding 60° at inland stations. *Wind* westerly and south-westerly over Ireland and England, south-easterly at Wick, blowing strongly generally; fresh westerly winds prevailing all day over Ireland and England, and easterly winds in Caithness. *Sea* rough in the S.W. *Barometer* rising a little over these Islands, falling over France. Low pressures still shown over our N.W. coasts, and high pressures over S. France. Barometer rising slowly all day.
		Friday, May 20. *Weather* fine and bright at most stations, but still cloudy in some places, and showers falling in N. Ireland. Fine during greater part of day, but slight occasional showers. *Temperature* changed irregularly, readings ranging from 56° in London to 45° at Wick. Maxima between 55° and 65°. *Wind* westerly and south-westerly over Ireland, England, the N. of France, and the North Sea, but south-easterly in Scotland. Moderate to fresh in force. Fresh westerly winds holding all day. *Sea* rough in the W. and S.W. *Barometer* rising everywhere, the change being greatest in the W. Readings still highest over France and lowest over Scotland, but gradients much slighter. Pressure increasing all day, and depression over Scotland moving a little eastward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 21.

Weather cloudy in W. Ireland and variable in Scandinavia, fine elsewhere. Very fine bright weather reported all day except from our extreme W. and N. coasts. No rain falling.

Temperature risen everywhere; readings ranging from 57° in the S.E. to 50° at Barrow-in-Furness. Maxima much higher than of late, thermometer reaching 70° at Nottingham and 68° in London.

Wind light to fresh from S. and S.W. over these Islands and moderate from N.E. over France. Southerly wind in Ireland freshening somewhat later, but remaining moderate elsewhere.

Sea rough off S. Ireland.

Barometer rising briskly all over western Europe. Large anticyclone lying over France and England, and pressure very uniform generally. Mercury rising slowly all day.

Sunday, May 22.

Weather still cloudy in W. Ireland, very fine elsewhere. Very bright weather reported from all places and no rain falling within these Islands.

Temperature again risen slightly; readings ranging from 61° at Nottingham to 50° at Nairn. Maxima again high, thermometer reaching 73° at Nottingham and 71° at York and in London.

Wind easterly over France and the Channel, southerly over the remainder of these Islands, and westerly in parts of Scandinavia. Fresh in the S.W., moderate or light elsewhere. Easterly winds spreading somewhat later.

Sea rough off S.W. Ireland.

Barometer falling in France, rising elsewhere—briskly over Scandinavia. Anticyclone lying over Denmark and North Sea, with low pressures in S. France and N. Norway. Mercury falling a little during day.

Monday, May 23.

Weather fine over the whole of these Islands and nearly the whole of the neighbouring countries. Very fine and bright all day.

Temperature risen over N. Germany, France, and our S. and W. coasts, fallen over central and eastern England; readings ranging from 63° at Valentia to 47° at Spurn Head. Maxima exceeding 70° at the inland and south-western stations.

Wind easterly over France, England, and Ireland, and southerly in Scotland. Blowing freshly in the S.W. and W. Easterly to southerly winds holding all day, blowing freshly in the S. and W.

Sea rough in the western half of the Channel.

Barometer rising a little over the northern districts and in the S. of Scandinavia, falling elsewhere. Large anticyclone lying over North Sea and S. of Norway, with low pressures over W. France. Pressure giving way all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head											
	Stornoway											
	Wick	64	34	52·7	39·7	46·2	−3·8	3	0·31	+0·05	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)	60	47	58·4	48·7	53·6	−3·3	3	0·35	+0·06	•	•
	Jersey (Noirmont)	69	46	59·9	48·6	54·3	−1·3	2	0·85	+0·43	68	64

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	73	35	58·7	42·4	50·6	+ 0·3	4	1·03	+0·65	*	*
	Aberdeen	63	33	56·9	40·1	48·5	− 3·0	4	0·92	+0·49	50	43
	Leith	68	34	59·9	43·1	51·5	− 0·4	4	0·57	+0·18	*	*
2. ENGLAND, N.E.	Alnwick Castle	62	38	58·0	42·1	50·1	− 2·7	3	0·20	?	*	*
	Shields	63	37	58·9	44·1	51·5	− 1·5	3	0·12	−0·28	*	*
	Durham	73	33	62·3	39·6	51·0	− 1·5	4	0·11	−0·30	70	62
	York	71	39	63·9	41·9	52·9	− 0·6	2	0·11	−0·29	62	55
	Spurn Head	60	42	57·9	45·9	51·9	− 1·6	2	0·18	?	*	*
3. ENGLAND, E.	Hillington ⚓	72	36	65·0	43·4	54·2	− 0·3	3	0·30	−0·10	64	58
	Yarmouth	62	40	59·1	45·3	52·2	− 2·3	3	0·28	−0·14	*	*
	Geldeston	66	35	62·4	43·8	53·1	− 1·9	3	0·44	+0·15	71	65
	Cambridge	73	32	64·7	42·4	53·6	− 1·9	4	0·58	+0·20	66	60
	Rothamsted	69	31	62·6	41·4	52·0	− 3·5	4	0·64	+0·19	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	36	65·9	41·1	53·5	− 0·5	4	0·20	−0·20	*	*
	Nottingham	73	38	65·3	42·6	54·0	− 0·6	3	0·32	−0·18	*	*
	Loughborough	74	34	64·7	42·0	53·4	− 1·8	3	0·40	−0·10	*	*
	Leicester	73	35	63·6	43·2	53·4	− 2·1	2	0·38	−0·10	65	59
	Birmingham (Oscott)	72	35	63·1	43·1	53·1	− 2·1	4	0·37	−0·15	*	*
	Cheadle ⚓	69	34	60·5	42·5	51·5	− 2·6	4	0·67	?	*	*
	Churchstoke ⚓	71	34	62·5	41·0	51·8	− 3·4	3	0·33	?	68	61
	Hereford ⚓	74	34	64·6	41·8	53·2	− 2·3	4	0·54	+0·12	*	*
	Cirencester	71	33	62·5	41·5	52·0	− 3·7	3	0·52	+0·02	68	62
	Oxford	71	38	62·7	43·7	53·2	− 2·6	4	0·88	+0·48	64	58
5. ENGLAND, S.	London†	72	37	65·7	45·0	55·4	− 0·1	3	0·58	+0·17	63	58
	Marlborough ⚓	71	34	62·0	41·9	52·0	− 3·7	4	0·69	+0·21	*	*
	Strathfield Turgiss ⚓	74	32	65·0	42·2	53·6	− 2·1	4	0·54	+0·22	*	*
	Dover	64	43	57·9	48·3	53·1	− 1·2	2	0·40	−0·06	*	*
	Hastings (St. Leonard's)	70	44	58·8	47·7	53·3	− 1·5	2	0·57	+0·22	*	*
	Southampton	74	39	63·4	45·1	54·3	− 0·8	2	0·52	?	64	59
	Hurst Castle	67	41	57·7	46·6	52·2	− 2·8	2	0·48	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	70	40	57·9	45·6	51·8	+ 0·6	4	1·90	?	*	*
	Glasgow	66	38	59·6	44·9	52·3	0·0	5	0·70	+0·11	64	56
	Ardrossan	71	39	57·7	45·4	51·6	− 0·7	3	0·86	+0·36	*	*
	Silloth (Cumberland)	70	36	59·8	42·7	51·3	− 1·7	4	0·61	+0·20	56	50
	Douglas (Isle of Man)	66	36	57·2	43·2	50·2	− 2·9	4	0·95	+0·57	63	56
7. ENGLAND, N.W.	Barrow-in-Furness	71	43	59·6	45·9	52·8	− 0·8	4	0·92	?	*	*
	Stonyhurst	69	37	60·3	42·7	51·5	− 2·2	4	1·57	+1·02	68	61
	Blackpool ⚓	70	41	60·1	44·1	52·1	− 1·8	3	0·81	+0·41	*	*
	Manchester	70	35	60·9	43·1	52·0	− 2·9	4	0·12	−0·28	*	*
	Liverpool Obsy (Bidston)	70	40	61·9	45·1	53·5	− 1·5	4	0·45	+0·10	*	*
	Llandudno ⚓	70	47	?60·4	?47·3	?53·9	? − 0·2	2	0·35	−0·03	62	56
	Holyhead	67	42	57·6	46·0	51·8	− 2·0	3	0·54	+0·18	*	*
8. ENGLAND, S.W.	Pembroke	63	43	57·0	46·9	52·0	− 4·0	2	0·51	+0·03	79	72
	Arlington (N. Devon)	71	40	60·0	43·9	52·0	− 4·0	4	‡2·52	?	*	*
	Falmouth	60	46	57·9	48·5	53·2	− 3·6	3	0·72	+0·14	70	65
	Plymouth	68	41	61·0	47·1	54·1	− 2·1	3	0·62	+0·17	68	63
	Prawle Point	62	44	56·0	46·1	51·1	− 4·9	2	0·31	?	*	*
9. IRELAND, N.	Londonderry	76	39	62·9	42·3	52·6	− 0·4	4	0·66	+0·22	*	*
	Mullaghmore	67	44	59·1	48·0	53·6	+ 0·5	4	0·83	?	*	*
	Markree Castle	69	37	60·4	41·4	50·9	− 2·6	4	0·33	−0·26	63	56
	Brookeborough	70	40	61·1	43·4	52·3	− 0·7	3	0·24	?	*	*
	Armagh	66	42	60·2	44·6	52·4	− 1·2	4	0·52	+0·19	61	54
	Donaghadee	63	36	58·3	42·6	50·5	− 2·8	4	1·07	?	*	*
10. IRELAND, S.	Dublin	64	45	62·1	47·2	54·7	+ 1·0	4	0·17	−0·31	74	67
	Parsonstown	73	39	62·0	43·4	52·7	− 0·9	4	0·64	+0·11	73	66
	Waterford	70	40	60·2	45·3	52·8	− 1·7	4	0·10	−0·42	*	*
	Roche's Point	67	45	60·1	47·3	53·7	− 1·0	3	0·56	−0·15	*	*
	Valentia	72	46	60·1	48·1	54·1	− 0·7	3	0·69	+0·07	72	65
	Foynes	71	42	63·5	45·1	54·3	+ 0·2	3	0·39	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine Values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ Not used for calculating the mean for "England, S.W.," in the summary on page 1.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 21.] WEEK ENDING MONDAY, MAY 30, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	75	40	62	46	54	1 above.	1	1	4 less.	83	70
	2. ENGLAND, N.E.	78	40	62	46	54	0 (average).	2	6	3 more.	83	72
	3. ENGLAND, E.	79	40	67	49	58	2 above.	2	4	1 more.	66	58
	4. MID. COUNTIES	78	36	70	48	59	3 above.	3	4	1 less.	45	40
	5. ENGLAND, S.	76	43	68	51	60	4 above.	3	4	0 (average).	46	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	78	41	67	49	58	4 above.	2	3	2 less.	63	55
	7. ENGLAND, N.W.	75	39	66	50	58	3 above.	4	12	9 more.	56	49
	8. ENGLAND, S.W.	73	45	64	51	58	0 (average).	2	1	5 less.	53	48
	9. IRELAND, N.	76	42	64	49	57	2 above.	2	3	2 less.	47	41
	10. IRELAND, S.	74	44	66	48	57	2 above.	2	3	3 less.	53	47

General Remarks.

Weather has been generally fine and bright, but on the 26th, 27th, and 28th it was dull and close over England and sharp thunderstorms occurred in several districts, accompanied by some heavy falls of rain.

Temperature has been much higher than of late, and was a few degrees above the mean in all districts except "England, N.E." and "England, S.W." The maximum for the period was 79°, which occurred at Cambridge on the 30th; at Silloth, Loughborough, and Durham, readings as high as 78° were registered, while at most other stations the highest readings for the week were between 73° and 76°. The minima were nowhere very low, the lowest reading of all (36°) occurring at Bawtry on the 29th.

Rainfall was more than the mean in the N.E., E., and N.W. of England, and equal to it in "England, S.," but less elsewhere.

Bright sunshine was more prevalent in the N. and E. than in other parts of the Kingdom, the percentages ranging from 72 in "England, N.E." to about 41 in the "Midland Counties," "England, S.," and "Ireland, N."

Depressions observed.—The only depressions noticed within our area during this period were a very shallow one over our south-eastern coasts on the 26th, and another shallow one in a similar position on the 29th. During the earlier part of the week the barometer was highest to the northward and lowest to the southward of our Islands, so that moderate easterly breezes prevailed on all our coasts: but on and after the 27th, the wind was more variable in direction and very light in force.

Q 6734. 100.—6/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending May 23, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 24.

Weather exceedingly fine over the whole of western Europe, and continuing very fine and bright all day over these Islands, but thunder occurring at Rochefort.

Temperature risen over central England, fallen in most other places; readings ranging from 61° in London, and 62° at Nairn, to 51° at Wick. Maxima generally between 60° and 70°, but exceeding that limit at a few stations.

Wind easterly all over the North Sea, France, England, and Ireland, but drawing into S. in Scotland. Blowing rather freshly. Falling rather lighter later, but little other change.

Sea rough in the S.W.

Barometer falling everywhere, but change very uniform. Area of high pressure lying over Scandinavia, and of low pressure off our S.W. coasts. Uniform decrease taking place all day.

Wednesday, May 25.

Weather changed considerably. Still fine over the N. of Scotland, Ireland, and the S.E. of England, but overcast and wet in the N. of England and S. of Scotland. Becoming cloudy generally later, with rain in some places.

Temperature fallen; readings ranging from 62° at Valentia, to 47° at Shields. Maxima between 55° and 65° generally, but exceeding 70° over central England.

Wind easterly over the North Sea and nearly the whole of the British Isles, light or moderate in force. Shifting to the southward at Valentia later, but remaining easterly in most other places.

Sea nearly smooth.

Barometer falling in all places. Large shallow area of low pressure lying over the southern portions of the Kingdom, and anticyclone still shown over Scandinavia. Pressure giving way all day.

Thursday, May 26.

Weather dull over England, the N. of France, and N. Germany, fine in most other places; rain falling at Cambridge. Dull and oppressive in the W. and S. all day, with sharp thunder-storms in some places; fine elsewhere.

Temperature changed irregularly, ranging from 61° at Barrow-in-Furness to 47° at Shields. Maxima again exceeding 70° at some inland stations.

Wind light everywhere and generally easterly in direction, but varying somewhat in different localities. Variable breeze all day.

Sea nearly smooth.

Barometer rising a little in the W. of France and our western districts, but still falling elsewhere. Shallow depression shown in the S.E., and readings highest in Lapland. Pressure increasing slowly during day, but depressions forming over England.

Friday, May 27.

Weather fine over our eastern and northern districts and over Norway, cloudy or dull elsewhere; rain falling in the N.W. and at some French stations. Fine in the E. and N. all day, unsettled in the N.W. and central districts.

Temperature risen in most places; readings ranging from 59° at Aberdeen and Roche's Point to 52° at Shields. Not much change during day. Maxima below 70° except at York, Nottingham, and Ardrossan.

Wind easterly over the North Sea and our northern districts, westerly in the S. and over France. Light in force on all coasts. Light variable breezes prevailing during the day.

Sea nearly smooth.

Barometer rising slightly in nearly all places. Pressure high over the Bay of Biscay and N. of Norway and lowest over N Germany. Small depressions passing across these Islands. Slight further increase of pressure during day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, May 28.

Weather fine in the E. and at some south-western stations, cloudy, dull, and unsettled elsewhere. Clearing in many parts of the country later, but thunder-storm reported in London at 6 p.m.

Temperature fallen slightly; ranging from 59° at Valentia and 61° in London to 50° at Nairn. Rising slowly during day and exceeding 70° over central England in afternoon.

Wind northerly in most parts of these Islands, but drawing into N.W. and W. in the S. and over France. Light or moderate in force. Light variable breezes prevailing during day.

Sea slight.

Barometer rising slowly generally. Pressure still high over the Bay of Biscay and N. of Norway, with band of low readings stretching from our N.W. coasts south-eastward to N. Germany. Mercury rising slowly all day.

Sunday, May 29.

Weather cloudy or dull over the N. of France and our southern and western districts; fine elsewhere; rain falling at several south-eastern stations. Fine during the day except in the S.

Temperature risen somewhat in the N., fallen elsewhere; readings ranging from 63° at Aberdeen and 59° at Cambridge to 50° at Holyhead. Maxima again between 70° and 75° in the central districts.

Wind light from N. in most parts of the Kingdom and moderate from N.W. in France. Light breezes between N.W. and N.E. prevailing during day.

Sea nearly smooth.

Barometer rising everywhere: depression in S.E. filling up, and pressure very uniform everywhere. Mercury rising steadily all day.

Monday, May 30.

Weather very fine in nearly all parts of western Europe, but some fog or mist reported. Very fine all day, and no rain within our Islands.

Temperature fallen in the N. and N.W.; readings ranging from 62° at Leith and Prawle Point to 47° at Donaghadee. Maxima between 65° and 75° generally, but 70° at Cambridge.

Wind easterly to northerly at our southern stations and over France, very light and variable on our N. coasts. Light variable breezes prevailing all day.

Sea slight or smooth.

Barometer rising over the whole of western Europe. Large area of high pressure forming over these Islands, and readings uniform generally. Mercury rising slowly all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	70	41	63·9	47·1	55·5	+5·0	0	—	−0·60	63	53
	Wick	65	42	63·1	45·6	54·4	+3·2	0	—	−0·26	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	51	59·9	52·0	56·0	−1·8	4	0·18	−0·13	*	*
	Jersey (Noirmont)	71	50	61·9	52·3	57·1	+0·2	1	0·17	−0·23	45	41

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	72	42	62·4	46·7	54·6	+ 2·8	0	—	−0·48	*	*
	Aberdeen	69	40	63·9	44·3	54·1	+ 1·3	2	0·06	−0·36	83	70
	Leith	75	44	60·4	45·6	53·0	− 0·1	1	0·12	−0·28	*	*
2. ENGLAND, N.E.	Alnwick Castle	67	43	59·4	46·4	52·9	− 1·1	3	0·79	?	*	*
	Shields	64	44	56·1	45·4	50·8	− 3·4	3	0·86	+0·46	*	*
	Durham	78	40	65·9	43·5	54·7	+ 0·9	2	0·62	+0·22	78	68
	York	77	42	71·7	46·6	59·2	+ 4·2	3	0·63	+0·23	87	76
	Spurn Head	60	46	57·1	47·3	52·2	− 2·7	1	0·06	?	*	*
3. ENGLAND, E.	Hillington ⚓	75	43	71·3	47·9	59·6	+ 3·7	1	0·09	−0·15	78	69
	Yarmouth	63	50	58·9	51·0	55·0	− 0·9	1	0·03	−0·42	*	*
	Geldeston	74	46	65·8	49·7	57·8	+ 1·5	4	0·51	+0·21	72	64
	Cambridge	79	40	72·0	48·3	60·2	+ 3·3	3	1·21	+0·83	47	42
	Rothamsted	72	43	68·1	49·9	59·0	+ 2·0	3	0·32	−0·12	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	76	36	72·7	44·4	58·6	+ 3·1	3	1·04	+0·62	*	*
	Nottingham	77	43	73·0	48·9	61·0	+ 5·0	3	0·35	−0·15	*	*
	Loughborough	78	40	73·0	48·9	61·0	+ 4·5	1	0·30	−0·14	*	*
	Leicester	74	41	70·4	49·4	59·9	+ 3·4	2	0·17	−0·33	49	43
	Birmingham (Oscott)	73	41	68·4	48·9	58·7	+ 2·1	3	0·27	−0·27	*	*
	Cheadle ⚓	73	38	67·9	48·5	58·2	+ 1·6	4	0·49	?	*	*
	Churchstoke ⚓	71	38	67·3	46·5	56·9	+ 0·4	4	0·82	?	41	36
	Hereford ⚓	74	43	69·6	49·2	59·4	+ 2·6	3	0·44	+0·02	*	*
	Cirencester	73	46	68·4	49·1	58·8	+ 1·8	3	0·35	−0·25	47	42
	Oxford	74	45	68·1	50·0	59·1	+ 2·1	4	0·26	−0·14	42	38
5. ENGLAND, S.	London†	74	47	69·7	52·3	61·0	+ 4·2	4	0·38	−0·07	40	36
	Marlborough ⚓	73	45	68·5	49·2	58·9	+ 1·9	2	0·38	−0·09	*	*
	Strathfield Turgiss ⚓	76	43	69·5	47·9	58·7	+ 1·9	3	0·28	−0·07	*	*
	Dover	68	51	63·9	54·0	59·0	+ 3·5	4	0·60	+0·15	*	*
	Hastings (St. Leonard's)	73	49	67·2	53·1	60·2	+ 5·4	5	0·23	−0·08	*	*
	Southampton	76	48	71·3	50·7	61·0	+ 4·5	2	0·23	?	52	47
	Hurst Castle	71	47	66·4	51·0	58·7	+ 3·5	3	0·76	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	71	45	67·3	50·0	58·7	+ 6·2	2	0·09	?	*	*
	Glasgow	75	45	68·2	47·9	58·1	+ 4·6	3	0·37	−0·23	63	54
	Ardrossan	75	45	65·9	48·6	57·3	+ 3·8	2	0·43	−0·07	*	*
	Silloth (Cumberland)	78	43	69·7	46·7	58·2	+ 4·2	1	0·31	−0·11	75	65
	Douglas (Isle of Man)	71	41	65·4	49·2	57·3	+ 3·2	3	0·14	−0·25	51	45
7. ENGLAND, N.W.	Barrow-in-Furness	75	48	68·4	52·1	60·3	+ 5·3	3	0 41	?	*	*
	Stonyhurst	73	43	69·2	49·0	59·1	+ 4·1	4	0·62	+0·02	70	61
	Blackpool ⚓	70	39	66·5	49·0	57·8	+ 2·6	5	1·66	+1·26	*	*
	Manchester	73	42	68·8	49·2	59·0	+ 3·0	2	1·15	+0·74	*	*
	Liverpool Obsy (Bidston)	70	44	64·3	49·3	56·8	+ 0·8	4	1·15	+0·75	*	*
	Llandudno ⚓	64	45	61·4	50·1	56·8	+ 1·2	5	2·16	+1·78	42	37
	Holyhead	65	48	59·9	50·6	55·3	+ 0·4	4	1·36	+1·00	*	*
8. ENGLAND, S.W.	Pembroke	66	49	61·0	50·9	56·0	− 0·9	0	—	−0·42	54	48
	Arlington (N. Devon)	71	45	64·9	49·6	57·3	+ 0·3	2	0·20	?	*	*
	Falmouth	70	52	62·0	52·5	57·3	− 0·5	1	0·01	−0·59	51	46
	Plymouth	73	51	68·1	54·1	61·1	+ 2·8	2	0·03	−0·48	55	50
	Prawle Point	72	48	63·1	50·1	56·6	− 0·4	3	0·42	?	*	*
9. IRELAND, N.	Londonderry	76	43	66·5	48·2	57·4	+ 3·0	1	0·25	−0·20	*	*
	Mullaghmore	68	51	63·0	53·0	58·0	+ 3·8	2	0·28	?	*	*
	Markree Castle	74	42	66·1	47·1	56·6	+ 1·7	3	0·42	−0·20	53	46
	Brookeborough	74	45	65·4	48·6	57·0	+ 2·5	1	0·16	?	*	*
	Armagh	68	43	62·6	50·3	56·5	+ 1·5	5	0·21	−0·11	40	35
	Donaghadee	66	46	60·6	48·1	54·4	0·0	2	0·65	?	*	*
10. IRELAND, S.	Dublin	64	49	61·5	51·4	57·5	+ 2·5	3	0·49	+0·01	46	41
	Parsonstown	74	44	67·4	47·1	57·3	+ 2·3	1	0·04	−0·49	49	43
	Waterford	72	48	69·1	51·3	60·2	+ 4·5	2	0·37	−0·13	*	*
	Roche's Point	70	49	65·9	50·1	58·0	+ 3·2	2	0·51	−0·19	*	*
	Valentia	67	44	64·6	52·3	53·5	− 1·5	1	0·08	−0·54	63	56
	Foynes										*	*

Stations marked ⚓ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine Values are the means of observations made in the City, (Bunhill Row), at Hampstead, and the Kew Observatory.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 22.] WEEK ENDING MONDAY, JUNE 6, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E. -	81	38	68	49	58	4 above.	3	3	1 less.	68	57
	2. ENGLAND, N.E.	83	38	68	49	59	3 above.	3	4	1 more.	57	49
	3. ENGLAND, E. -	81	39	71	48	60	2 above.	2	11	6 more.	60	52
	4. MID. COUNTIES	84	41	72	49	61	3 above.	3	7	3 more.	61	53
	5. ENGLAND, S. -	82	40	70	51	60	2 above.	2	10	6 more.	68	61
Principal Grazing, &c. Districts.	6. SCOTLAND, W. -	76	39	64	47	56	1 above.	4	8	3 more.	67	57
	7. ENGLAND, N.W.	74	41	65	50	57	1 above.	2	10	5 more.	74	64
	8. ENGLAND, S.W.	79	45	66	52	59	1 above.	3	7	1 more.	77	69
	9. IRELAND, N. -	80	38	65	47	56	0 (average).	3	8	3 more.	67	58
	10. IRELAND, S. -	77	41	65	48	57	0 (average).	4	8	2 more.	69	60

General Remarks.

Weather during the first part of the period was very fine and warm in all places, but towards its close it became dull, cold, and unsettled, with thunderstorms and heavy rain and hail.

Temperature was a little above the mean in all but the Irish districts. The maxima were very high over the greater part of England and Scotland, the thermometer rising to 84° at Nottingham, and to between 80° and 83° in nearly all districts. At the close of the week the maxima in many parts of the same districts were below 60°. The minima occurred generally on the 6th, when temperature fell to between 38° and 40° in many parts of the country.

Rainfall was less than the mean in "Scotland, E.," but more in all other districts.

Bright sunshine shows a decrease in the N. and E., but an increase in duration elsewhere, the percentages varying from 69 in "England, S.W." to 49 in "England, N.E."

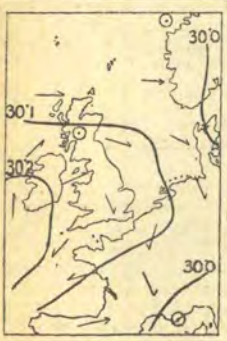
Depressions observed.—During the first few days the barometer was high and uniform, and the wind light and very variable in direction, but by the 3rd, pressure had given way considerably in the N. and a westerly breeze had set in over Scotland and Ireland, which subsequently backed to S.W. and freshened. On the 5th, a large depression, which had advanced from the westward, lay off the W. coast of Norway and a shallow subsidiary disturbance over England. The former filled up somewhat, but the latter travelled south-eastward and grew deeper, causing fresh north-westerly or northerly winds all over our Islands.

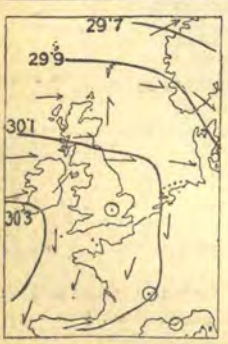
Q 6794. 100.—6/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 6, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, May 31.

Weather cloudy in N. Scotland and over Norway, exceedingly fine and bright elsewhere, continuing very fine all day except in the extreme north, and no rain falling over western Europe.

Temperature risen slightly in most places, ranging from 66° at Scilly and Leith, and 69° at Nottingham, to 56° at Holyhead. Rising during day, and maxima of 81° at York, and 84° at Nottingham recorded.

Wind north-westerly and northerly on the eastern shores of the North Sea, and north-easterly to easterly over France and the Channel, but light variable breezes prevailing on our coasts. Variable breezes reported all day.

Sea nearly smooth.

Barometer falling slightly in the extreme north, rising elsewhere. Large area of high pressure lying over these Islands. Slight and uniform decrease taking place all day.

Wednesday, June 1.

Weather very fine except in Norway, but some fog or mist at a few stations. Exceedingly fine all day, and again complete absence of rain.

Temperature risen several degrees in E. Scotland, fallen in most other places; readings ranging from 71° at Prawle Point, and 72° at Aberdeen, to 55° at Stornoway. Maxima 80° in London and York, and 82° at Nottingham.

Wind moderate to fresh from N.W. in Scandinavia, from N.E. and E. in France and the Channel, fresh from S.E. at Valentia, and moderate from S. at Stornoway, but still light and variable elsewhere. Southerly wind in W. extending during day.

Sea rather rough at Valentia.

Barometer falling slowly over the whole of western Europe. Change uniform, however, and general distribution little altered, area of high pressure still lying over us. Pressure giving way slowly all day.

Thursday, June 2.

Weather cloudy at Valentia and Stornoway, still very fine elsewhere. Exceedingly fine all day, but slight thundershower occurring over Cambridge at night.

Temperature risen in the E. and N.E., fallen in most other places; ranging from 70° at Nottingham to 52° at Stornoway. Maxima 80° at Aberdeen and York and 84° at Nottingham.

Wind between S. and W. in the W. and N., and between N.E. and N. in the E. and S. Light or moderate in force. Westerly breezes in the N., becoming more decided and spreading.

Sea slight.

Barometer falling over Scandinavia and nearly the whole of these Islands, but rising in the S.W. Large area of high pressure in the S.W. Fall of barometer continuing during day, and becoming brisk in Norway.

Friday, June 3.

Weather very fine over the greater part of France, England, and the E. of Scotland and Ireland, cloudy or dull in most other places. Sky cloudy all day except in the S.E., and slight rain falling in the N. and W.

Temperature fallen fast in the N.E., and slightly generally; readings ranging from 70° at Nottingham to 53° at Wick. Maxima 82° at Nottingham and 79° in London.

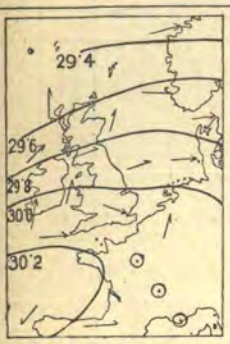
Wind light northerly in the S. and S.E., westerly elsewhere, blowing strongly in Norway but lightly on our coasts. Westerly winds becoming general later, and blowing strongly in the Hebrides.

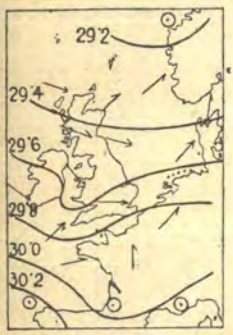
Sea slight.

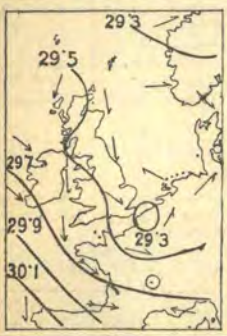
Barometer falling over Scandinavia and the N. and N.E. of these Islands, rising elsewhere. Readings highest in S.W. Barometer falling everywhere later—briskly at Stornoway.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 4.

Weather fine in the S.E. of England and over France, dull elsewhere. Continuing fine all day in the S.E., but rain setting in in the N.W. and N. later.

Temperature fallen generally; readings ranging from 66° in London to 53° at Wick and Pembroke. Maxima much lower than of late in the W., but thermometer rising to 81° at Nottingham and in London.

Wind southerly in the W., south-westerly or westerly elsewhere; moderate in force generally. South-westerly wind increasing during day, and blowing strongly and gustily.

Sea rough off the W. of Ireland.

Barometer falling everywhere, quickly in the north. Pressure highest in the S.W., lowest over Lapland. Small depression passing across Scotland later, and barometer falling everywhere.

Sunday, June 5.

Weather fine at a few eastern stations and in S. Ireland, cloudy and unsettled elsewhere, with rain in the N. of England. Showery all day, and very wet in the south.

Temperature fallen several degrees generally, readings ranging from 61° at Yarmouth to 50° at Stornoway. Maxima between 55° and 65° generally.

Wind north-westerly on our W. coasts, and westerly to south-westerly elsewhere; fresh in most places. Veering somewhat during day, and drawing into N.W. generally.

Sea rough in N.W. and S.W.

Barometer falling everywhere; large depression shown in N., and smaller disturbance over S. Wales. Latter depression travelling slowly across England during day. Recovery commencing in W.

Monday, June 6.

Weather fine over the central and more northern districts, dull, cloudy, and showery in the W. and S. Unsettled all day with sharp thunder-showers in the eastern, southern, and central districts.

Temperature fallen everywhere—quickly in the S.E.; readings ranging from 56° at Nottingham to 46° at Mullaghmore. Maxima below 60° except at a few inland stations.

Wind northerly to north-westerly and fresh in force on our own and the French coasts, but moderate from S. in the Netherlands. Little change during day.

Sea rough in the W. and S.W.

Barometer falling quickly in S.E. and small depression shown there, but rising elsewhere. Mercury rising slowly all day, but fresh depression forming over England.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head										*	*
	Stornoway	64	38	57·6	47·0	52·3	+0·7	4	0·94	+0·28	45	37
	Wick	70	39	63·0	45·9	54·5	+2·0	4	0·45	+0·16	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	47	62·9	53·0	58·0	−0·6	3	0·72	+0·32	84	76
	Jersey (Noirmont)	75	49	66·6	52·0	59·3	+1·3	2	0·84	+0·45	*	*

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	75	40	65·1	48·7	56·9	+ 3·7	4	0·28	−0·10	*	*
	Aberdeen	80	38	69·0	47·9	58·5	+ 4·5	2	0·19	−0·23	68	57
	Leith	81	42	70·0	49·1	59·6	+ 4·9	4	0·30	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	72	38	64·3	48·9	56·6	+ 0·9	2	0·11	?	*	*
	Shields	73	46	65·1	51·4	58·3	+ 2·3	2	0·10	−0·30	*	*
	Durham	83	38	72·4	47·6	60·0	+ 4·5	2	0·42	+0·02	62	53
	York	81	42	72·9	49·3	61·1	+ 4·6	4	0·99	+0·54	57	49
	Spurn Head	74	48	64·4	52·3	58·4	+ 1·9	3	0·23	?	*	*
	Brigg‡	80	39	71·3	46·8	59·1	+ 2·1	3	0·60	?	53	46
3. ENGLAND, E.	Hillington ℳ	81	39	73·7	45·1	59·4	+ 2·2	2	1·21	+0·96	54	47
	Yarmouth	78	48	65·0	51·6	58·3	+ 0·8	2	0·84	+0·39	*	*
	Geldeston	78	42	70·9	47·9	59·4	+ 1·7	2	0·71	+0·36	68	60
	Cambridge	79	43	74·3	48·6	61·5	+ 3·5	3	2·10	+1·71	57	50
	Rothamsted	79	43	71·3	47·3	59·3	+ 0·8	2	0·78	+0·32	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	83	42	73·4	48·7	61·1	+ 4·3	3	0·34	−0·14	*	*
	Nottingham	84	43	76·6	49·4	63·0	+ 5·5	3	0·64	+0·14	*	*
	Loughborough	83	42	73·7	50·4	62·1	+ 4·1	3	0·84	+0·29	*	*
	Leicester	79	43	73·2	50·9	62·1	+ 4·1	3	1·06	+0·52	49	43
	Birmingham (Oscott)	77	43	70·1	49·2	59·7	+ 1·7	3	0·38	−0·18	*	*
	Cheadle ℳ	75	42	67·7	48·7	58·2	+ 0·4	3	0·47	?	*	*
	Churchstoke ℳ	77	41	69·4	45·5	57·5	0·0	3	0·38	?	56	49
	Hereford ℳ	80	43	72·7	49·5	61·1	+ 3·2	3	0·55	+0·13	*	*
	Cirencester	79	44	71·5	50·9	61·2	+ 2·7	3	1·10	+0·60	66	58
	Oxford	79	47	71·7	51·1	61·4	+ 2·7	2	1·05	+0·61	71	63
5. ENGLAND, S.	London†	81	47	74·1	50·3	62·2	+ 3·9	2	0·80	+0·32	65	58
	Marlborough ℳ	78	41	71·4	48·1	59·8	+ 1·1	2	0·75	+0·18	*	*
	Strathfield Turgiss ℳ	82	40	74·4	47·7	61·1	+ 3·1	2	1·04	+0·66	*	*
	Dover	69	50	62·6	53·9	58·3	+ 1·3	2	1·17	+0·72	*	*
	Hastings (St. Leonard's)	76	48	66·4	52·1	59·3	+ 2·3	2	1·57	+1·27	*	*
	Southampton	81	46	73·5	50·6	62·1	+ 4·1	2	0·93	?	71	63
	Hurst Castle	72	47	65·9	51·1	58·5	+ 0·9	2	0·37	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	75	39	61·6	46·3	54·0	+ 0·1	4	0·98	?	*	*
	Glasgow	76	41	65·3	49·3	57·3	+ 2·4	4	0·69	+0·07	58	49
	Ardrossan	71	46	63·7	50·1	56·9	+ 2·1	4	0·36	−0·14	*	*
	Silloth (Cumberland)	73	41	66·1	46·9	56·5	+ 1·1	2	1·45	+1·03	66	56
	Douglas (Isle of Man)	74	40	64·4	44·4	54·4	− 1·1	4	0·74	+0·38	78	67
7. ENGLAND, N.W.	Barrow-in-Furness	71	47	63·9	51·1	57·5	+ 1·0	2	1·05	?	*	*
	Stonyhurst	73	42	65·9	47·9	56·9	+ 0·4	3	0·79	+0·18	73	63
	Blackpool ℳ	70	41	62·3	47·6	55·0	− 1·5	2	1·38	+0·97	*	*
	Manchester	74	41	66·7	47·8	57·3	− 0·1	2	0·40	−0·09	*	*
	Liverpool Obsy (Bidston)	73	48	64·9	51·7	58·3	+ 1·0	2	0·86	+0·46	*	*
	Llandudno ℳ	73	47	66·6	52·2	59·4	+ 2·4	3	1·50	+1·12	74	64
	Holyhead	71	47	63·9	51·4	57·7	+ 1·3	2	0·74	+0·38	*	*
8. ENGLAND, S.W.	Pembroke	71	47	63·0	51·9	57·5	− 0·2	3	0·58	+0·18	77	68
	Arlington (N. Devon)	75	45	66·7	49·4	58·1	+ 0·1	3	0·93	?	*	*
	Falmouth	74	46	65·7	53·1	59·4	+ 0·6	3	0·71	+0·11	80	72
	Plymouth	79	47	70·1	53·0	61·6	+ 3·1	2	0·79	+0·39	74	67
	Prawle Point	76	48	66·3	53·3	58·8	+ 0·3	2	0·63	?	*	*
9. IRELAND, N.	Londonderry	80	41	67·5	47·5	57·5	+ 1·8	3	0·78	+0·30	*	*
	Mullaghmore	75	44	62·4	50·9	56·7	+ 0·9	4	1·10	?	*	*
	Markree Castle	75	41	64·1	43·8	54·0	− 2·0	4	0·88	+0·18	59	51
	Brookeborough	77	38	66·9	44·5	56·7	+ 0·7	3	0·76	?	*	*
	Armagh	75	41	65·9	49·0	57·5	+ 1·5	3	0·72	+0·40	74	64
	Donaghadee	68	40	63·9	45·3	54·6	− 1·2	3	0·59	?	*	*
10. IRELAND, S.	Dublin	75	42	66·5	49·9	58·2	+ 2·2	3	0·50	−0·01	75	65
	Parsonstown	77	43	66·6	46·9	56·8	+ 0·5	3	0·65	+0·13	68	59
	Waterford	75	42	68·0	47·0	57·5	+ 0·5	5	0·80	+0·32	*	*
	Roche's Point	69	45	63·7	49·1	56·4	− 0·6	3	0·71	+0·07	*	*
	Valentia	69	46	62·6	50·0	56·3	− 0·6	4	1·11	+0·48	63	56
	Foynes	75	41	62·4	45·9	54·2	− 2·3	5	1·10	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine Values are the means of observations made in the City, (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ Brigg has now been added to the list of stations in England, N.E.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 23.] WEEK ENDING MONDAY, JUNE 13, 1881. [*Price 2d.* [*Annual subscription, post paid*, 12s. 6d.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valentia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	32	55	41	48	7 below.	3	2	2 less.	39	32
	2. ENGLAND, N.E.	68	34	54	42	48	10 below.	2	1	4 less.	28	24
	3. ENGLAND, E.	68	35	59	43	51	8 below.	3	2	3 less.	49	41
	4. MID. COUNTIES	74	33	59	42	50	9 below.	3	2	3 less.	33	38
	5. ENGLAND, S.	71	35	59	44	52	8 below.	3	4	1 less.	42	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	35	56	41	49	7 below.	3	3	2 less.	42	35
	7. ENGLAND, N.W.	63	36	56	44	50	8 below.	2	2	3 less.	41	35
	8. ENGLAND, S.W.	71	35	57	45	51	8 below.	4	3	1 less.	65	57
	9. IRELAND, N.	62	30	56	43	50	7 below.	4	3	2 less.	33	28
	10. IRELAND, S.	64	32	59	44	51	7 below.	3	3	2 less.	37	32

General Remarks.

Weather has been dull and unsettled with showers of cold rain or hail in all districts.

Temperature has been very low for the season, the readings being from 7° to 10° below the mean in all parts of the country. The minima were exceedingly low, shade readings of 30° to 32° being registered at Markree and Parsonstown on the 9th, and similar readings in the northern parts of Scotland on the 10th. Over England the sheltered thermometer did not fall below 33°, but on the grass a sharp frost was experienced. At Durham 6° of frost was registered, while even in the neighbourhood of Arlington (North Devon) ice was formed. Towards the close of the period temperature was higher, maxima of 71° to 74° being recorded over central England.

Rainfall was a little less than the mean in all districts.

Bright sunshine shows a decided decrease in duration: the percentage was greatest (57) in "England, S.W.," and least (24) in "England, N.E."

Depressions observed.—From the commencement of the period until the 9th, the barometer was highest in the W. and lowest in the E., and moderate or fresh northerly breezes prevailed all over the country; but on the 10th, pressure gave way on our western coasts, and a shallow depression, travelling in a south-easterly direction, caused easterly winds in the N. of England, north-westerly in the S.W., and southerly in the E. At the close of the week the depression had disappeared, and light northerly breezes again prevailed in nearly all parts of the country.

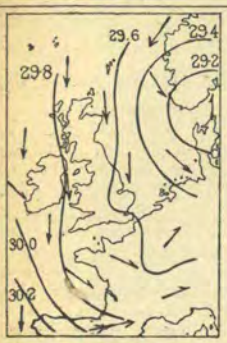
Q 6866. 100.—6/81. Wt. 230. E. & S.

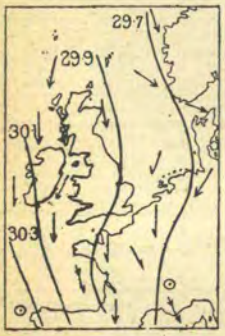
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 13, 1881.

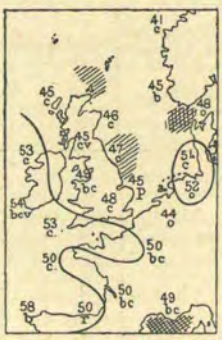
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 7.

Weather fine at the majority of stations, but dull and rainy over the S.E. of England and at the mouth of the Tyne. Moderately fine at times in most places, but showers very general.

Temperature fallen; readings ranging from 52° in S.W. to 43° at Nairn. Thermometer low all day and maxima varying between 47° and 57° only.

Wind northerly all over these Islands and the N. of France, but drawing into W. in the S. of that country and over N. Germany. Fresh to strong in force generally. Fresh to strong northerly winds holding all day.

Sea rough in the S.W. and round the Hebrides.

Barometer rising generally but depression shown over the Skager Rack, and pressure decreasing quickly there. Barometer rising slowly over these Islands. Readings highest in west.

Wednesday, June 8.

Weather still fine in most places, but hail showers falling in N. Scotland and rain in E. France. Showers occurring during the day but weather fair in the intervals.

Temperature fallen and still low, ranging from 53° at Prawle Point to 41° at Aberdeen. Maxima between 50° and 60° generally but below 50° at Shields and Stornoway.

Wind northerly all over the United Kingdom and France, blowing freshly except in the S.E. Fresh to strong northerly winds prevailing all day.

Sea rough in the N. and S.W.

Barometer rising everywhere. Area of high pressure shown in the extreme S.W. with depression over N. Norway. Mercury rising all day and readings highest off our western coasts.

Thursday, June 9.

Weather fine in the S.W. and W., cloudy or dull in the N. and E., rain falling at Sumburgh Head. Cloudy all day, with slight showers of rain in many places.

Temperature fallen in the S.E., risen slightly elsewhere; ranging from 54° at Valentia to 43° at Nairn. Maxima between 50° and 60° generally, but below 50° at Stornoway and Shields.

Wind northerly to north-westerly in all parts of western Europe, blowing lightly on most of our coasts, but strongly over the North Sea. Backing to W. in Ireland later, but little other change.

Sea rough on some parts of our N. and E. coasts.

Barometer rising everywhere—most in Norway. Large area of high pressure over our western coasts with depression over the Baltic. Mercury giving way slowly in W. and N. later, but increase continuing elsewhere.

Friday, June 10.

Weather fine in a few places, but generally cloudy or dull; rain falling all over the western and north-western districts. Cloudy in most places all day, with rain in the W. and S.

Temperature risen slightly, except in "England, S.W."; readings ranging from 56° at Valentia to 44° in the Shetlands. Maxima again between 50° and 60°.

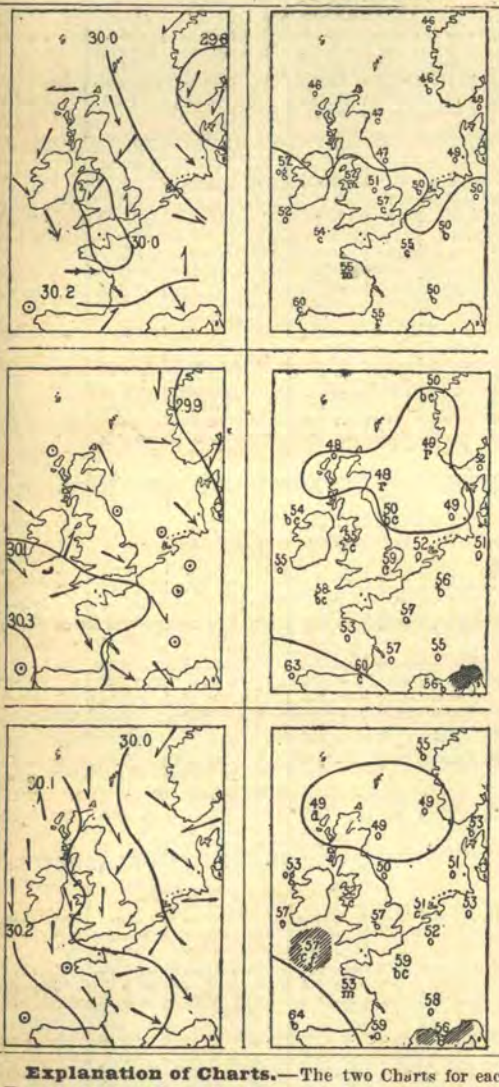
Wind drawing from S.W. through S. into S.E. on our western coasts, and blowing from N. and N.W. all over the eastern half of our area and over France. Strong over Denmark, moderate elsewhere. Shifting to N.W. in Ireland later, and backing to S.W., S., and S.E. elsewhere.

Sea rather rough at the mouth of the Humber.

Barometer falling except over Spain and S. France. Area of high pressure lying over N. Spain, with well marked depression over Baltic and shallow disturbance on our N.W. coasts. Latter disturbance advancing slowly over us later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 11.

Weather cloudy or dull except over N. Germany and our S.E. coasts; mist prevailing in many places, and rain in S.W. France. More or less cloudy all day, but rainfall very slight.

Temperature risen in the S., fallen in most other places; readings ranging from 57° in London to 45° at Wick. Maxima between 50° and 60° generally, but 65° in London and 66° at Leith.

Wind easterly in the N., northerly to north-westerly in the W. and S.W., westerly over France, and southerly to south-easterly in the S.E. Moderate or light in force. Little change during day.

Sea slight or smooth.

Barometer fallen everywhere. Readings still highest over Spain, with shallow depression over the W. of England and N.W. of France, and rather deep depression over Baltic. Mercury steady during day in S.W., falling a little elsewhere.

Sunday, June 12.

Weather moderately fair on the whole, but dull in the N., with rain at Aberdeen. Fine in the S.E. during day, but dull in the W. and N. with some rain.

Temperature risen except in N.W. France; readings ranging from 61° at Nottingham to 48° in N. Scotland. Maxima higher than of late, reaching 74° at Nottingham and 69° in London.

Wind northerly and north-westerly, moderate to light in force except in N. Germany. Moderate or light northerly to westerly winds blowing all day.

Sea slight or smooth.

Barometer rising everywhere except the N. of Scotland. Readings higher on our S.W. and W. coasts and lower over the Baltic than in any other part of western Europe, but uniform everywhere. Slight depression forming in S.E. later.

Monday, June 13.

Weather fine on our N.W. coasts as well as over central and south-eastern England and the N.E. of France; cloudy dull elsewhere, with rain at Stornoway. Fine on the whole during day, and scarcely any rain falling.

Temperature fallen a little; readings ranging from 61° at Dover to 47° at Wick; 69° reached in London later, but maxima not so high as on 12th.

Wind northerly all over the United Kingdom, the North Sea, and greater part of France; light or moderate on all coasts. Light variable breezes all day.

Sea rough in S.W.

Barometer rising except in S. Ireland. Readings very uniform over the whole of western Europe. Mercury falling in west all day, and slight depression appearing over Ireland.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	52	34	49·6	38·0	43·8	−8·9	3	0·09	−0·61	39	31
	Wick	55	30	51·1	37·6	44·4	−9·0	4	0·20	−0·10	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	61	46	57·3	48·9	53·1	−6·7	5	0·36	−0·12	*	*
	Jersey (Noirmont)	61	43	56·6	46·1	51·4	−8·1	3	0·91	+0·56	54	48

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	57	35	52·4	42·0	47·2	7·3	3	0·36	−0·03	*	*
	Aberdeen	58	32	53·6	39·9	46·8	− 8·4	4	0·07	−0·34	39	32
	Leith	66	39	58·1	42·0	50·1	− 4·9	3	0·30	−0·12	*	*
2. ENGLAND, N.E.	Alnwick Castle	57	35	51·3	41·7	46·5	−10·2	2	0·02	?	*	*
	Shields	53	37	50·7	41·4	46·1	−10·9	2	0·09	−0·31	*	*
	Durham	65	34	55·2	38·1	46·7	−10·4	2	0·10	−0·30	25	21
	York	67	37	56·9	41·3	49·1	− 8·7	1	0·04	−0·47	30	25
	Spurn Head	62	34	53·4	44·7	49·1	− 8·8	2	0·12	?	*	*
	Brigg‡	68	35	58·3	41·3	49·8	− 8·6	1	0·02	?	30	25
3. ENGLAND, E.	Hillington Ⓜ	68	37	58·5	42·0	50·3	− 8·2	3	0·21	−0·16	49	41
	Yarmouth	63	41	57·0	44·9	51·0	− 7·5	3	0·20	−0·29	*	*
	Geldeston	66	37	58·9	42·2	50·6	− 8·4	3	0·15	−0·34	57	49
	Cambridge	67	35	60·7	42·0	51·4	− 8·2	2	0·14	−0·26	40	34
	Rothamsted	67	35	58·4	43·0	50·7	− 9·3	5	0·26	−0·22	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	67	36	60·3	42·7	51·5	− 6·5	1	0·02	−0·49	*	*
	Nottingham	74	33	62·4	41·6	52·0	− 6·9	2	0·07	−0·44	*	*
	Loughborough	68	36	59·1	42·8	51·0	− 8·0	4	0·08	−0·47	*	*
	Leicester	66	36	58·9	41·4	50·2	− 9·2	3	0·44	−0·12	33	28
	Birmingham (Oscott)	68	37	57·5	41·4	49·5	−10·0	3	0·36	−0·23	*	*
	Cheadle Ⓜ	63	37	54·9	41·1	48·0	−11·2	4	0·36	?	*	*
	Churchstoke Ⓜ	66	33	57·6	40·8	49·2	− 9·7	3	0·19	?	*	*
	Hereford Ⓜ	69	34	59·7	41·2	50·5	− 8·5	4	0·40	−0·01	33	28
	Cirencester	66	36	58·0	41·6	49·8	−10·1	3	0·29	−0·23	29	24
	Oxford	66	39	58·7	44·4	51·6	− 8·7	2	0·14	−0·33	38	33
5. ENGLAND, S.	London†	69	39	62·1	45·4	53·8	− 6·1	1	0·07	−0·43	48	41
	Marlborough Ⓜ	66	35	57·7	41·9	49·8	−10·2	3	0·24	−0·22	*	*
	Strathfield Turgiss Ⓜ	71	35	60·9	43·4	52·2	− 7·4	3	0·29	−0·11	*	*
	Dover	63	42	56·7	45·3	51·0	− 7·2	3	0·70	+0·25	*	*
	Hastings (St. Leonard's)	64	40	57·4	45·2	51·3	− 7·2	3	0·53	+0·23	*	*
	Southampton	65	37	60·1	45·2	52·7	− 6·8	3	0·25	?	35	30
	Hurst Castle	60	38	58·1	43·1	50·6	− 8·3	3	0·34	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	37	54·5	40·5	48·5	− 6·5	1	0·09	?	*	*
	Glasgow	62	37	55·6	40·4	48·0	− 7·8	3	0·15	−0·50	37	30
	Ardrossan	62	37	56·0	41·7	48·9	− 6·8	4	0·30	−0·21	*	*
	Silloth (Cumberland)	67	35	59·6	40·6	50·1	− 6·7	3	0·21	−0·23	33	28
	Douglas (Isle of Man)	61	36	55·6	42·0	48·8	− 8·7	3	0·70	+0·31	57	48
7. ENGLAND, N.W.	Barrow-in-Furness	62	41	57·7	44·7	51·2	− 6·7	2	0 17	?	*	*
	Stonyhurst	61	39	55·3	41·4	48·4	− 9·4	1	0·08	−0·60	30	25
	Blackpool Ⓜ	61	36	55·6	43·8	49·7	− 8·2	3	0·07	−0·35	*	*
	Manchester	63	37	54·8	41·2	48·0	−10·5	3	0·19	−0·36	*	*
	Liverpool Obs' (Bidston)	62	42	56·9	45·1	51·0	− 7·5	3	0·25	−0·20	*	*
	Llandudno Ⓜ	62	40	55·8	45·4	50·6	− 7·6	3	0·45	+0·07	52	45
	Holyhead	61	44	54·6	47·1	50·9	− 7·0	2	0·25	−0·13	*	*
8. ENGLAND, S.W.	Pembroke	59	41	54·7	45·4	50·1	− 7·7	4	0·43	+0·13	71	62
	Arlington (N. Devon)	62	35	55·9	41·7	48·8	−10·2	4	0·42	?	*	*
	Falmouth	66	43	58·0	47·5	52·8	− 7·1	4	0·24	−0·36	71	63
	Plymouth	71	40	61·6	45·7	53·7	− 6·1	4	0·29	−0·11	53	47
	Prawle Point	61	39	58·3	44·4	51·4	− 8·4	3	0·33	?	*	*
9. IRELAND, N.	Londonderry	60	37	57·0	42·7	49·9	− 6·9	4	0·28	−0·22	*	*
	Mullaghmore	59	44	56·6	48·3	52·5	− 4·6	5	0·39	?	*	*
	Markree Castle	60	30	57·6	40·2	48·9	− 8·6	4	0·30	−0·42	34	28
	Brookeborough	62	34	57·2	41·8	49·5	− 7·6	4	0·20	?	*	*
	Armagh	59	36	56·1	43·3	49·7	− 7·2	4	0·26	−0·06	32	27
	Donaghadee	57	40	54·0	43·6	48·8	− 8·0	2	0·31	?	*	*
10. IRELAND, S.	Dublin	61	37	57·2	44·0	50·6	− 6·7	4	0·37	−0·19	36	31
	Parsonstown	62	32	58·9	40·9	49·9	− 7·4	4	0·26	−0·24	32	27
	Waterford										*	*
	Roche's Point	63	41	60·7	45·3	53·0	− 5·2	2	0·20	−0·40	*	*
	Valentia	62	42	59·1	47·3	53·6	− 4·3	4	0·54	−0·11	43	37
	Foynes	64	38	57·9	40·3	49·1	− 8·7	3	0·15	?	*	*

Stations marked Ⓜ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine Values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 24.] WEEK ENDING MONDAY, JUNE 20, 1881. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the correspouding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	41	59	48	54	3 below.	5	10	6 more.	11	9
	2. ENGLAND, N.E.	72	40	64	50	57	2 below.	5	9	4 more.	25	22
	3. ENGLAND, E.	73	38	66	50	58	2 below.	4	5	0 (average).	35	30
	4. MID. COUNTIES	74	41	67	51	59	2 below.	5	6	1 more.	20	17
	5. ENGLAND, S.	74	46	65	53	59	1 below.	4	6	1 more.	22	18
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	39	63	52	57	0 (average).	6	15	7 more.	25	21
	7. ENGLAND, N.W.	69	43	64	52	58	1 below.	6	7	2 more.	23	19
	8. ENGLAND, S.W.	65	41	60	52	56	4 below.	6	14	9 more.	26	23
	9. IRELAND, N.	70	40	62	50	56	2 below.	6	13	5 more.	25	20
	10. IRELAND, S.	67	45	61	51	56	3 below.	7	19	15 more.	24	20

General Remarks.

Weather has been dull all over the Kingdom, very heavy rain has fallen in the S.W., and rather large amounts in most other districts. At several stations thunder and lightning occurred.

Temperature, though much higher than during last week, was again below the mean in all districts except "Scotland, W." The maxima were nowhere high, varying from 70° to 74° in most districts, but not exceeding 59° at Prawle Point and Pembroke. The minima occurred generally at the commencement of the period, and varied between 38° and 43° in all except the south-western and southern stations, where they were higher.

Rainfall was equal to the mean in "England, E." but more elsewhere. In the S. and S.W. the excess was very great.

Bright sunshine shows a further decrease in duration: the percentages were everywhere low, ranging from 9 in "Scotland, E." and 17 in the "Midland Counties," to 30 in "England, E."

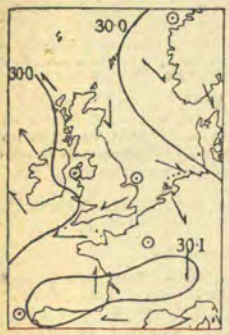
Depressions observed.—Pressure during the whole of the period was highest in the E. and lowest in the W. Several depressions, dut none very deep, travelled from S. to N. outside our western coasts, or from S.W. to N.E. across our western and northern districts, causing fresh or strong southerly or south-westerly winds in the W. and S.W., and moderate southerly and south-south-easterly winds in the E. and N.

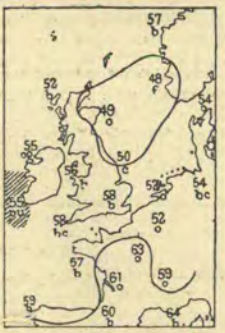
Q 6956. 100.—6/81. Wt. 230. E. & S.

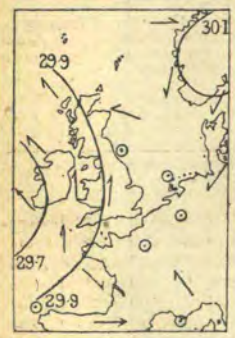
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 20, 1881.

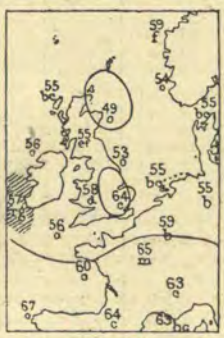
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 14.

Weather fine on both sides of the Irish Sea as well as at our south-eastern stations, cloudy or dull elsewhere, with mist or fog over the Channel. Clearing in Scotland later, little other change.

Temperature risen in N.W., changed little and irregularly elsewhere; readings ranging from 58° in London to 48° at Nairn. Maxima between 55° and 65° generally, but 73° at Nottingham.

Wind very light from E. and N.E. over Great Britain, but moderate to strong from S.E. in Ireland. Veering somewhat in Ireland later, and southerly wind extending to other parts of our western and northern coasts.

Sea rough off Valentia.

Barometer rising over the S.E. of England and on the eastern shores of the North Sea, falling elsewhere,—briskly in W. Ireland. Pressure very uniform over us. Barometer falling all day, and slight gradients for southerly winds appearing.

Wednesday, June 15.

Weather still fine in extreme S.E., dull in nearly all other places; fog or mist prevailing at some western and south-western stations, and rain falling at Parsonstown. Dull except in the S. and S.E. all day. Rain falling in West.

Temperature risen over central and eastern England, fallen elsewhere; readings ranging from 65° at Nottingham to 48° at Nairn. Maxima exceeding 70° over central England.

Wind light on all coasts and varying between S.W. and S.E. No change of importance during day.

Sea nearly smooth.

Barometer falling slowly except on our extreme S.E. coasts and in the E. of France. Anticyclone lying over France and the Channel, with shallow depression off our N.W. coasts. Slight decrease during day, pressure very uniform.

Thursday, June 16.

Weather fine only on the extreme E. coast of England and over N. Germany, cloudy or dull elsewhere; rain falling in S. Ireland. Dull with rain at all except a few extreme eastern stations later.

Temperature risen somewhat in the E. fallen in the W. Readings ranging from 67° at Nottingham to 48° at Wick. Maxima exceeding 70° over central England, but much lower elsewhere.

Wind southerly over the Channel and south-easterly over nearly the whole of these Islands; blowing strongly at Valentia and moderately elsewhere. South-easterly winds holding all day.

Sea rather rough.

Barometer falling all over the more western parts of the Kingdom, rising elsewhere. Pressure highest over Scandinavia, lowest to the westward of Ireland. Barometer falling a little all day.

Friday, June 17.

Weather more or less cloudy in all parts of these Islands and the W. of France. Rain in several places. Dull except in the extreme E. all day, and rain general.

Temperature fallen in most places; readings ranging from 63° in London to 49° at Aberdeen. Not much change later, and maxima ranging from about 70° at central stations to 50° in the N.E.

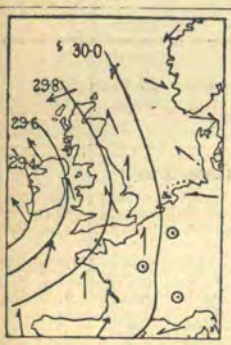
Wind southerly over France and the Channel, south-easterly on all our coasts; moderate to fresh in force. Backing to E. at Valentia later, but fresh south-easterly winds continuing elsewhere.

Sea rough in S.W., and high round the Hebrides.

Barometer falling generally, and two depressions shown off the Irish coasts. Pressure highest over Norway. Barometer falling all day—most in S.W., and depression apparently advancing over Ireland.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 18.

Weather overcast except over Denmark, rain falling in several places. Unsettled and showery during day, but considerable improvement occuring in W. in evening.

Temperature risen quickly in the Netherlands and slightly over the United Kingdom. Readings ranging from 65° at Nottingham to 50° at Aberdeen. Maxima below 70° except at Nottingham and York.

Wind south-westerly to south-easterly, fresh to moderate in force. Veering to S.W. in all districts, except the N. of Scotland, where south-easterly winds still blowing.

Sea rough on our S.W. and W. coasts.

Barometer falling in almost all places, and large depression lying off the W. coast of Ireland. Disturbance passing slowly northward during the day, and pressure recovering quickly in S.W.

Sunday, June 19.

Weather cloudy or dull except at a few north-western stations, showers of rain falling in a few places. Fair except in Scotland later. Rainfall heavy at Aberdeen.

Temperature fallen in most places; readings ranging from 64° at Nottingham to 50° at Wick. Maxima varying from 74° over central England to 53° at Wick.

Wind southerly and south-easterly in the E. and south-westerly and westerly in the W., light or moderate except in the S.W. Moderate south-westerly and southerly winds blowing all day.

Sea rough off Ushant.

Barometer rising somewhat except over N. Germany, Denmark, and Scandinavia. Depression lying off Ireland; mercury falling slowly all day and depression steady.

Monday, June 20.

Weather dull except over France, the Netherlands, and S.E. of England; rain falling in N. Scotland. Fine during day in E., but dull rainy weather from the W. gradually spreading over us.

Temperature changed irregularly, but risen at most eastern stations; readings ranging from 63° in London to 52° at Ardrossan. Thermometer rising briskly in E. later.

Wind south-westerly and southerly generally, but backing to S.E. in W. Ireland. Southerly winds general over England during day reaching force of a gale at Scilly, but south-easterly breezes reported from W. Ireland.

Sea slight generally.

Barometer falling in the W. and N., rising slowly over France and our south-eastern districts; anticyclone lying over France, with depression to the westward of Ireland. Mercury giving way all day and depression advancing in over us.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds: o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	64	43	59·4	47·3	53·4	+0·7	4	0·49	−0·22	52	40
	Wick	61	40	55·3	45·4	50·4	−3·6	5	0·99	+0·61	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	65	48	62·3	52·7	57·5	−3·1	7	0·54	−0·01	*	*
	Jersey (Noirmont)	65	48	63·3	52·6	58·0	−2·8	5	0·58	+0·26	31	27

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	46	60·7	49·3	55·0	− 0·8	3	0·26	−0 14	*	*
	Aberdeen	67	41	55·4	46·6	51·0	− 5·5	6	2·19	+1·79	11	9
	Leith	67	46	61·4	48·3	54·9	− 2·0	5	0·59	+0·15	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	44	59·3	50·4	54·9	− 2·9	5	0·70	?	*	*
	Shields	67	46	58·0	48·3	53·2	− 4·7	5	0·70	+0·30	*	*
	Durham	70	41	67·5	49·2	58·4	− 0·1	6	1·01	+0·59	17	14
	York	71	43	68·4	50·4	59·4	+ 0·6	5	0·99	+0·44	31	27
	Spurn Head	69	48	61·7	52·7	57·2	− 1·8	5	0·60	?	*	*
	Brigg‡	72	40	68·1	50·9	59·5	0·0	5	1·12	?	28	24
3. ENGLAND, E.	Hillington 𝔐	73	40	69·4	50·1	59·7	− 0·1	4	0·33	? −0·06	33	28
	Yarmouth	68	44	62·1	51·3	56·7	− 3·1	4	0·81	+0·31	*	*
	Geldeston	72	38	65·7	49·0	57·4	− 3·9	3	0·58	+0·08	42	36
	Cambridge	70	44	66·6	50·4	58·5	− 2·1	3	0·29	−0·16	31	27
	Rothamsted	70	46	67·3	51·3	59·3	− 2·2	4	0·23	−0·29	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	41	71·3	49·7	60·5	+ 1·3	5	0·72	+0·19	*	*
	Nottingham	74	45	72·6	50·4	61·5	+ 1·5	4	0·45	−0·07	*	*
	Loughborough	71	46	68·6	51·6	60·1	− 0·2	6	0·49	−0·09	*	*
	Leicester	69	46	66·7	51·4	59·1	− 1·5	5	0·68	+0·10	21	18
	Birmingham (Oscott)	70	44	66·3	50·9	58·6	− 2·0	6	0·72	+0·12	*	*
	Cheadle 𝔐	66	45	63·8	49·9	56·9	− 3·4	6	0·65	?	*	*
	Churchstoke 𝔐	67	41	63·9	47·9	55·9	− 4·3	6	0·41	?	22	19
	Hereford 𝔐	69	43	65·8	49·8	57·8	− 2·2	5	0·81	+0·40	*	*
	Cirencester	67	46	64·9	50·9	57·9	− 3·1	6	0·92	+0·37	15	13
	Oxford	69	51	66·6	53·9	60·3	− 1·6	5	0·37	−0·10	21	17
5. ENGLAND, S.	London†	74	49	69·6	54·1	61·9	+ 0·4	2	0·40	−0·11	20	16
	Marlborough 𝔐	68	46	65·1	52·0	58·6	− 2·9	5	0·64	+0·18	*	*
	Strathfield Turgiss 𝔐	71	48	69·3	52·2	60·7	− 0·3	4	0·40	−0·04	*	*
	Dover	66	49	61·7	54·6	58·2	− 1·8	2	0·62	+0·17	*	*
	Hastings (St. Leonard's)	69	48	63·0	53·0	58·0	− 1·9	5	0·50	+0·20	*	*
	Southampton	71	52	66·4	53·9	60·2	− 0·1	4	0·69	?	23	20
	Hurst Castle	65	50	62·1	52·9	57·5	− 2·5	4	0·64	?	*	*
6. SCOTLAND, W.	Laudale (Loch Suvart)	66	52	62·8	53·2	58·0	− 2·1	5	2·45	?	*	*
	Glasgow	64	45	61·7	52·3	57·0	0·0	6	1·30	+0·60	20	16
	Ardrossan	66	45	61·9	50·3	56·1	− 0·5	6	1·35	+0·84	*	*
	Silloth (Cumberland)	70	46	66·6	53·1	59·9	+ 2·2	4	0·74	+0·29	27	23
	Douglas (Isle of Man)	64	39	59·4	48·7	54·1	− 3·8	7	1·39	+0·99	28	24
7. ENGLAND, N.W.	Barrow-in-Furness	68	49	64·6	53·4	59·0	0·0	6	0 91	?	*	*
	Stonyhurst	67	46	64·4	51·5	58·0	− 0·7	5	0·60	−0·11	22	19
	Blackpool 𝔐	67	43	64·9	50·2	57·6	− 1·3	5	1·11	+0·66	*	*
	Manchester	67	45	64·7	51·2	58·0	− 1·7	5	0·56	−0·05	*	*
	Liverpool Obs'y (Bidston)	69	46	65·4	52·0	58·7	− 0·8	5	0·53	+0·03	*	*
	Llandudno 𝔐	66	47	64·4	52·9	58·7	− 0·4	7	0·44	+0·04	23	19
	Holyhead	66	48	62·6	53·3	58·0	− 1·0	6	0·86	+0·47	*	*
8. ENGLAND, S.W.	Pembroke	59	47	57·3	51·7	54·5	− 5·3	6	0·71	+0·33	31	27
	Arlington (N. Devon)	65	41	61·6	49·7	56·7	− 3·3	7	2·21	?	*	*
	Falmouth	65	50	60·6	54·6	57·6	− 3·3	6	1·86	+1·26	31	27
	Plymouth	63	45	61·7	53·2	57·5	− 3·4	7	1·48	+1·09	17	15
	Prawle Point	59	47	56·9	50·9	53·9	− 6·7	5	0·79	?	*	*
9. IRELAND, N.	Londonderry	70	41	65·4	50·0	57·7	− 0·2	7	1·04	+0·53	*	*
	Mullaghmore	67	51	61·7	52·6	57·2	− 1·3	6	1·52	?	*	*
	Markree Castle	66	40	63·6	48·4	56·0	− 2·5	6	1·10	+0·37	20	16
	Brookeborough	65	44	61·9	50·9	56·4	− 2·0	7	1·77	?	*	*
	Armagh	65	49	61·5	51·6	56·6	− 1·4	6	0·93	+0·54	29	24
	Donaghadee	63	41	58·4	48·6	53·5	− 4·5	5	1·22	?	*	*
10. IRELAND, S.	Dublin	65	45	62·7	52·3	57·5	− 1·0	7	1·30	+0·70	23	19
	Parsonstown	67	45	63·0	50·9	57·0	− 1·5	7	1·59	+1·10	24	20
	Waterford										*	*
	Roche's Point	63	50	61·3	52·0	56·7	− 2·8	7	2·63	+2·07	*	*
	Valentia	62	47	59·9	50·7	55·3	− 3·5	7	2·70	+2·01	25	22
	Foynes	64	47	59·9	48·5	54·2	− 4·7	7	1·14	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

Erratum.—In our last issue (week ending 13th June) the "Bright Sunshine" values for Churchstoke were, in error, quoted for Hereford.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 25.] WEEK ENDING MONDAY, JUNE 27, 1881. [*Price 2d.*

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2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
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Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	69	39	64	50	57	0 (average).	4	2	2 less.	48	38
	2. ENGLAND, N.E.	72	39	65	50	58	2 below.	5	4	1 less.	44	37
	3. ENGLAND, E.	76	45	67	51	59	2 below.	3	3	2 less.	48	42
	4. MID. COUNTIES	75	38	67	50	58	3 below.	5	5	1 less.	49	42
	5. ENGLAND, S.	76	41	66	53	59	3 below.	3	3	1 less.	48	42
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	41	61	49	55	2 below.	5	6	0 (average).	47	39
	7. ENGLAND, N.W.	69	40	63	51	57	3 below.	5	7	1 more.	49	42
	8. ENGLAND, S.W.	67	39	62	52	57	4 below.	5	7	3 more.	55	48
	9. IRELAND, N.	66	41	62	49	56	4 below.	6	13	6 more.	29	25
	10. IRELAND, S.	65	44	61	50	56	4 below.	5	10	5 more.	34	29

General Remarks.

Weather, though more or less rainy on several days, was moderately fair on the whole, and during part of the time very bright.

Temperature has been equal to the mean in "Scotland, E." but again a few degrees below it elsewhere. The highest of the maxima were generally registered during the afternoon of the 24th, when the thermometer rose to 76° at Hillington, Strathfield Turgiss, and in London, and to between 70° and 75° at our other central, southern, and eastern stations. At some places in the north-western parts of the Kingdom the highest temperature during the period was only 62°. The lowest readings were registered during the early morning of the 24th, the thermometer falling to 38° at Churchstoke, and to 39° at Leith, Durham, and Arlington (North Devon).

Rainfall was decidedly more than the mean in nearly all the "Grazing" districts, but rather less in the "Wheat-producing" districts.

Bright sunshine, though more prevalent than it was during last week, was still rather scarce, the percentages ranging from 48 in "England, S.W." to 25 in "Ireland, N."

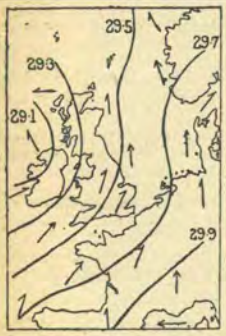
Depressions observed.—During this period two rather large depressions have travelled from S.W. to N.E. across our northern districts, and several small subsidiary disturbances over England. The winds consequently varied between S., S.W., and W., and were generally moderate or fresh in force, but blew strongly on the 21st, 22nd, and 24th, on nearly all our coasts, and at our extreme western stations reached the force of a moderate or fresh gale.

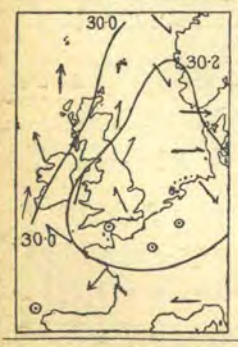
Q 7074. 100.—6/81. Wt. 230. E. & S.

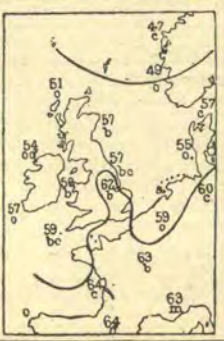
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending June 27, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 21.

Weather fine on most parts of the continent, but dull and unsettled over nearly the whole of these Islands, with rain in W. and N. Considerable improvement occurring during day, but showers continuing.

Temperature risen slightly, readings ranging from 64° in London, to 52° at Aberdeen. Maxima above 70° over central England, between 60° and 70° elsewhere.

Wind south-westerly and southerly in nearly all places, and moderate to strong in force. Fresh westerly winds in Ireland later, but strong southerly breezes continuing elsewhere.

Sea rough in S.W.

Barometer falling except in the S. of Scandinavia and S. of France, large depression lying off the W. of Ireland. Pressure recovering in S.W. later, and depression passing a little northward.

Wednesday, June 22.

Weather fine on our E. coast and at some north-western stations, cloudy or dull in most other places, with rain at several stations. Fine over nearly the whole country in the afternoon and evening, but still showery in the W.

Temperature fallen, readings ranging from 63° at Yarmouth to 54° at Wick. Maxima below 70° everywhere, and below 60° at some western and northern stations.

Wind westerly to south-westerly all over these Islands and France, but southerly on the eastern shores of the North Sea. Moderate to strong in force. Veering later to W. on most coasts, and to N. in the Hebrides.

Sea rough in the S.W. and W., and at Spurn Head.

Barometer rising in all places, and depression in the N. filling up. Pressure increasing all day, and anticyclone appearing in the W. of France.

Thursday, June 23.

Weather fine over the greater part of England, the N. of France, and N. Germany, dull or cloudy elsewhere with rain at Stornoway and Mullaghmore. Fair all day and no rain falling after the morning.

Temperature fallen generally—several degrees in the N. and E.; readings ranging from 63° in London to 47° at Stornoway. Maxima about 70° at Central English stations, but below 65° generally.

Wind northerly and north-westerly on our northern coasts, westerly over our southern and central districts, and south-westerly and southerly on the eastern shores of the North Sea. Backing to S.W. at Valentia later.

Sea rough in the N.W.

Barometer risen quickly everywhere; depression moved away and large anticyclone shown over France, the Channel, and our S.W. coasts. Pressure increasing all day and anticyclone shown over the S. of these Islands and the Channel.

Friday, June 24.

Weather fine over the N. of France and the greater part of England and Scotland, but dull on our extreme western coasts. Fine all day over the central and eastern districts, but rain commencing in the W.

Temperature risen in most places, readings ranging from 66° in London to 51° at Stornoway. Maxima high except in the W.; thermometer reaching 76° in London and 75° at Nottingham.

Wind easterly over France and the Channel and southerly all over Ireland, Scotland, and the W. of England; blowing strongly in the extreme W. Wind increasing later, and reaching force of a fresh gale in the extreme W.

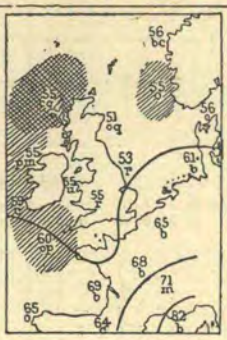
Sea rough at Valentia and Stornoway.

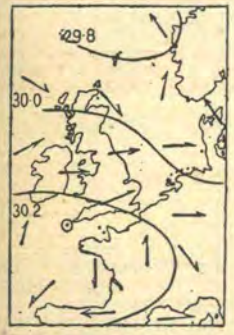
Barometer falling in Ireland and W. Scotland, rising elsewhere; large anticyclone lying over England, the North Sea, and N. France, and depression approaching our N.W. coasts. Mercury falling all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, June 25.

Weather cloudy or dull except at some French stations and on our extreme S.E. coasts, rain falling in many places. Dull and rainy all day but clearing in the N. in the evening.

Temperature fallen generally; readings ranging from 62° in the S.E. to 51° at Aberdeen. Maxima between 60° and 67 generally.

Wind south-westerly to southerly all over the country, blowing lightly in the S. and freshly or strongly in the W. and N. Veering somewhat during the day.

Sea high round the Hebrides, rough on our W. and S.W. coasts.

Barometer falling except in Sweden—briskly in the W. and N.W. Pressure high over the Gulf of Bothnia and France with depression off the W. coast of Scotland. Mercury rising in W. and N. later.

Sunday, June 26.

Weather moderately fine over nearly the whole country, but cloudy in some places. Clouding over in the W. later, but remaining fine in the E.

Temperature risen somewhat, and ranging from 66° at Dover to 52° in the Hebrides. Maxima lower than on 25th, but 72° registered at London and Nottingham.

Wind south-westerly in S. Ireland, westerly on our other coasts, and southerly in Norway, light or moderate in force. Backing to S. in Ireland later, but little other change.

Sea rough round Scilly.

Barometer falling over the countries to the eastward [illegible]ne North Sea, rising elsewhere. Large anticyclone forming over France and our S.W. coasts, with depressions over Denmark and the W. of Norway. Mercury falling briskly in Ireland later.

Monday, June 27.

Weather cloudy or dull in nearly all places, except the S. of France; rain falling at many stations. Dull and showery all day.

Temperature fallen generally, readings ranging from 61° at Nottingham to 50° at Stornoway. Maxima lower than on 26th.

Wind westerly and north-westerly on our extreme W. coasts, south-westerly and southerly elsewhere; blowing freshly at a few western stations. Light to fresh breezes between N.W. and S.W. holding all day.

Sea rough off the W. of Ireland and round Scilly.

Barometer falling everywhere; pressure highest over central France, with three shallow disturbances over our western coasts. Depressions moving eastward during day, and mercury rising in W.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	61	43	57·0	46·3	51·7	−2·7	6	1·64	+0·90	30	23
	Wick	62	43	59·0	47·1	53·1	−1·7	6	0·33	−0·07	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	64	50	62·6	53·7	58·2	−3·4	3	0·51	−0·05	*	*
	Jersey (Noirmont)	70	50	63·7	53·9	58·8	−2·7	4	0·48	+0·16	62	56

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	69	43	64·1	50·7	57·4	+ 0·9	3	0·10	−0·30	*	*
	Aberdeen	67	44	63·6	48·1	55·9	− 1·1	4	0·21	−0·19	48	38
	Leith	69	39	65·6	49·6	57·6	+ 0·1	6	0·39	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	67	42	64·0	48·4	56·2	− 2·3	5	0·38	?	*	*
	Shields	69	44	64·4	49·1	56·8	− 1·9	6	0·48	+0·08	*	*
	Durham	72	39	66·3	45·7	56·0	− 3·3	6	0·27	−0·21	42	35
	York	70	42	66·4	50·7	58·6	− 0·8	6	0·45	−0·10	47	40
	Spurn Head	69	52	64·0	53·4	58·7	− 1·3	4	0·44	?	*	*
	Brigg‡	72	39	66·8	49·8	58·3	− 2·2	5	0·40	?	42	35
3. ENGLAND, E.	Hillington ℳ	76	46	68·4	51·2	59·8	− 0·7	3	0·44	+0·09	45	39
	Yarmouth	70	50	65·7	53·9	59·8	− 0·8	2	0·28	−0·24	*	*
	Geldeston	71	48	68·3	51·3	59·8	− 1·2	2	0·24	−0·21	51	44
	Cambridge	74	45	67·9	50·4	59·2	− 2·4	3	0·22	−0·28	48	42
	Rothamsted	73	45	65·9	49·3	57·6	− 4·9	5	0·37	−0·19	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	73	43	68·7	48·1	59·4	− 0·6	5	0·48	−0·07	*	*
	Nottingham	75	45	69·7	50·6	60·2	− 0·9	5	0·51	−0·04	*	*
	Loughborough	73	46	67·3	52·3	59·8	− 1·2	4	0·46	−0·10	*	*
	Leicester	72	47	66·5	52·0	59·3	− 2·2	5	0·41	−0·18	50	42
	Birmingham (Oscott)	70	45	65·6	50·7	58·2	− 3·0	4	0·41	−0·19	*	*
	Cheadle ℳ	67	45	62·8	49·3	56·1	− 5·0	6	0·82	?	*	*
	Churchstoke ℳ	68	38	63·9	48·3	56·1	− 4·8	6	0·75	?	45	38
	Hereford ℳ	70	40	66·9	49·8	58·4	− 2·4	6	0·65	+0·22	*	*
	Cirencester	71	43	64·7	50·5	57·6	− 4·3	6	0·46	−0·13	54	47
	Oxford	71	46	66·1	52·1	59·1	− 3·6	4	0·29	−0·21	48	41
5. ENGLAND, S.	London†	76	43	69·3	51·4	60·4	− 2·2	3	0·30	−0·23	43	37
	Marlborough ℳ	71	41	64·9	50·4	57·7	− 4·7	5	0·66	+0·21	*	*
	Strathfield Turgiss ℳ	76	41	68·5	49·4	59·0	− 3·0	3	0·32	−0·14	*	*
	Dover	67	54	64·4	55·3	59·9	− 1·1	4	0·15	−0·27	*	*
	Hastings (St. Leonard's)	66	49	63·1	53·7	58·4	− 2·5	3	0·15	−0·17	*	*
	Southampton	72	47	66·7	52·5	59·6	− 1·4	3	0·39	?	53	46
	Hurst Castle	66	48	62·9	53·9	58·4	− 2·6	3	0·38	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	62	41	58·6	47·0	52·8	− 3·2	6	2·80	?	*	*
	Glasgow	63	41	62·3	48·8	55·6	− 1·5	6	0·30	−0·41	40	33
	Ardrossan	62	43	60·3	49·7	55·0	− 2·1	6	0·47	−0·65	*	*
	Silloth (Cumberland)	67	44	64·5	51·1	57·8	− 0·8	4	0·51	+0·05	48	40
	Douglas (Isle of Man)	62	44	60·1	49·5	54·8	− 3·7	5	0·93	+0·53	54	45
7. ENGLAND, N.W.	Barrow-in-Furness	65	49	61·4	51·9	56·7	− 3·1	5	0·81	?	*	*
	Stonyhurst	67	41	62·9	48·6	56·3	− 3·2	6	0 91	+0·12	51	43
	Blackpool ℳ	66	40	61·5	50·4	56·0	− 3·8	5	0·70	+0·18	*	*
	Manchester	67	41	63·2	49·4	56·3	− 4·1	4	0·61	−0·07	*	*
	Liverpool Obsy (Bidston)	69	47	63·7	51·9	57·8	− 2·4	6	0·54	−0·06	*	*
	Llandudno ℳ	65	48	63·6	52·7	58·2	− 1·7	4	0·49	+0·07	46	40
	Holyhead	63	51	61·7	53·3	57·5	− 2·5	4	0·47	+0·12	*	*
8. ENGLAND, S.W.	Pembroke	61	49	59·1	52·3	55·7	− 4·8	5	0·98	+0·58	58	50
	Arlington (N. Devon)	66	39	62·6	50·6	58·0	− 4·3	6	0·89	?	*	*
	Falmouth	64	49	62·2	53·8	58·0	− 3·5	4	0·62	+0·02	62	54
	Plymouth	67	43	65·3	52·8	59·1	− 2·4	6	0·73	+0·28	46	41
	Prawle Point	64	47	61·1	50·9	56·0	− 5·1	6	0·44	?	*	*
9. IRELAND, N.	Londonderry	66	46	62·9	48·7	55·8	− 2·6	6	1·29	+0·72	*	*
	Mullaghmore	62	48	60·0	51·6	55·8	− 3·5	5	1·78	?	*	*
	Markree Castle	64	41	61·4	47·7	55·0	− 4·5	4	0·87	+0·17	20	17
	Brookeborough	64	44	62·3	48·0	55·2	− 4·0	5	1·61	?	*	*
	Armagh	62	46	61·4	50·0	55·7	− 3·2	7	1·36	+0·88	38	32
	Donaghadee	65	48	61·9	49·6	55·8	− 3·0	5	0·75	?	*	*
10. IRELAND, S.	Dublin	65	50	63·8	52·6	58·2	− 1·6	5	0·24	−0·36	29	25
	Parsonstown	64	44	61·9	49·4	55·7	− 3·6	6	1·09	+0·59	35	29
	Waterford										*	*
	Roche's Point	64	50	61·4	51·0	56·2	− 4·1	5	1·12	+0·56	*	*
	Valentia	63	48	61·1	51·9	56·5	− 3·4	5	1·79	+1·09	39	34
	Foynes	63	44	58·7	46·7	52·7	− 7·1	5	0·80	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.
§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 26.] WEEK ENDING MONDAY, JULY 4, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

1.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart) Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857–69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866–75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	75	42	66	49	58	0 (average).	5	8	3 more.	40	33
	2. ENGLAND, N.E.	84	43	68	51	59	1 below.	2	2	3 less.	31	26
	3. ENGLAND, E.	87	42	74	53	63	1 above.	0	—	6 less.	63	54
	4. MID. COUNTIES	85	40	71	51	61	1 below.	1	less than ½	6 less.	48	42
	5. ENGLAND, S.	87	41	71	52	62	0 (average).	0	—	5 less.	71	62
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	82	46	62	51	56	2 below.	6	15	9 more.	18	15
	7. ENGLAND, N.W.	78	45	64	53	58	2 below.	3	5	1 less.	30	26
	8. ENGLAND, S.W.	75	46	65	52	59	3 below.	2	1	4 less.	52	46
	9. IRELAND, N.	83	46	63	52	58	2 below.	6	9	3 more.	13	11
	10. IRELAND, S.	76	44	65	52	59	2 below.	3	7	1 more.	17	15

General Remarks.

Weather has been generally fair and dry over the eastern, central, and southern parts of England, but very unsettled and rainy elsewhere.

Temperature has been a little above the mean in "England, E.," but below it in all other districts excepting "Scotland, E," and "England S.," where it has scarcely differed from the normal value. The highest readings were registered at the close of the week, when the thermometer in the shade reached 85° at Nottingham, Cambridge, and Rothamsted, 86° at Hillington, and Strathfield Turgiss, and 87° at Geldeston, Cambridge, and in London; these readings were all about twenty degrees higher than the maxima registered at the commencement of the period. The lowest of the minima were recorded either on the 28th, 29th, or 30th June, but no very cold nights have occurred.

Rainfall has been more than the mean in Scotland and Ireland, but less over England. In "England, E." and "England, S." the weather has been absolutely dry, and in the Midland Counties the total fall for the week has not amounted to half a tenth of an inch. In "Scotland, W." the rainfall has been very heavy, and at Silloth on the 30th, 1·96 ins. fell in the space of twelve hours.

Bright sunshine has been very deficient in Ireland and the western parts of England, but in "England, S." it has reached sixty per cent. of the possible amount.

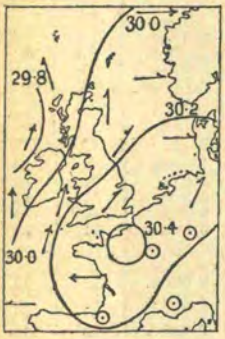
Depressions observed.—At the commencement of the week there was a large shallow depression lying off our northern coasts, producing moderate westerly or south-westerly winds over the whole country. On the 30th June, a deeper disturbance appeared over Ireland, passing northward in the course of a few hours and causing strong south-westerly winds on many parts of our western coasts. This was followed on the 3rd July by another depression of less intensity, which also passed away northward. On the 4th, a new and still shallower disturbance appeared over the N. of Scotland, subsequently travelling away north-eastward. The winds have been south-westerly or westerly all the week,—light in the south-east, fresh to strong in the W. and N.

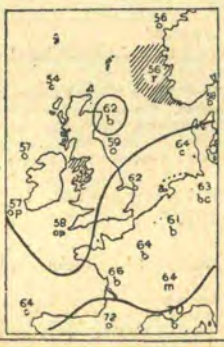
Q 7177. 100.—7/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 4, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, June 28.

Weather fine all over the eastern and central parts of the Kingdom and the greater part of France, dull and unsettled elsewhere. Variable and rather unsettled.

Temperature risen slightly, readings ranging from 62° at Dover to 51° at Mullaghmore. Maxima rather low, between 60° and 65° generally, but 68° in London.

Wind westerly on all our coasts, but drawing into S. in Scandinavia and into N. over France. Blowing strongly in the N.W. No change later.

Sea rough at Mullaghmore.

Barometer rising except in Sweden. Anticyclone lying off our S.W. coasts, with shallow area of low pressure to the northward of Scotland. Mercury rising slowly all day.

Wednesday, June 29.

Weather fine generally, but cloudy at some western and northern stations, and showery at Ardrossan and Wick. Moderately fine all day, but unsettled weather coming in in the W. later.

Temperature fallen in N., risen a little elsewhere; readings ranging from 64° at Nottingham to 49° at Stornoway. Maxima rather higher and exceeding 70° over central England.

Wind south-westerly and westerly generally; blowing freshly in the N.W. Backing to S. at Valentia later, but moderate westerly winds holding on most coasts all day.

Sea rough at Mullaghmore and Barrow-in-Furness.

Barometer falling slightly in the N., rising generally. Area of high pressure lying over France and S. England, with shallow depression to the northward of Scotland. Slight decrease occurring at Valentia later.

Thursday, June 30.

Weather very fine over France, N. Germany, and the S.E. of England, cloudy or dull elsewhere with rain in the N.W. and W. Dull at all but the south-eastern stations during day, and the rain spreading.

Temperature risen in the S.E. fallen generally, readings ranging from 63° at Yarmouth to 53° at Donaghadee. Maxima low in W., but again exceeding 70° over central England.

Wind easterly over France, southerly over these Islands, and westerly in Scandinavia; blowing strongly in the W. Strong to moderate breezes holding all day.

Sea rough in the S.W. and W.

Barometer rising in the E. and on most parts of the Continent, but falling in the W. of France and the greater part of these Islands. Falling all day, and rather deep depression passing northward along our W. coasts.

Friday, July 1.

Weather fine at our south-eastern and north-eastern stations as well as over France and N. Germany, cloudy or dull elsewhere, showers falling at Valentia. Fine during day in most places, but thunder occurring at Wick.

Temperature fallen in Ireland risen elsewhere, ranging from 68° at Dover to 55° at Ardrossan. High all day, and reaching 80° in London and at Cambridge.

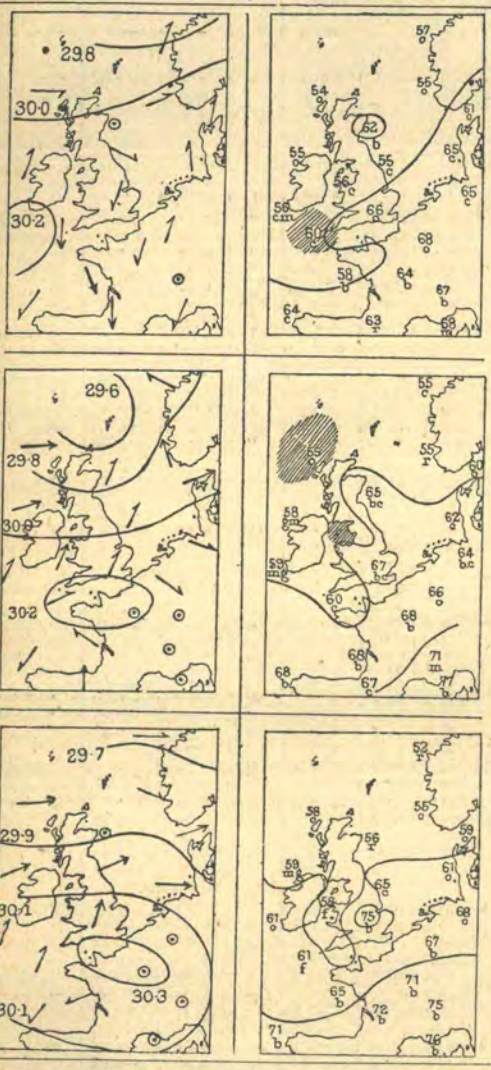
Wind westerly in the W. and N. southerly elsewhere; moderate or light in force. Veering in most places during day and drawing into N. in Ireland.

Sea rough at Barrow-in-Furness.

Barometer falling everywhere, large depression in N. and smaller one in S.W., with large area of high pressure over central Europe. Rising all day, except in S.E. and area of high pressure appearing in W.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 2.

Weather cloudy or dull except at some south-eastern and eastern stations. Fine all day over England, but dull and rainy over Ireland and Scotland.

Temperature fallen slightly generally, ranging from 69° at Dover to 53° at Parsonstown. High over England all day and exceeding 75° at central stations.

Wind southerly in the W. of Ireland and westerly in Scotland, northerly elsewhere, light or moderate in force. Southerly wind extending during the day, and increasing to a strong breeze in the N.W.

Sea rough at Scilly.

Barometer rising briskly over these islands and their neighbourhood; falling briskly in Norway. Readings high and uniform over the United Kingdom and France, with large depression in north. Pressure giving way quickly in W. later, and depression passing up northward.

Sunday, July 3.

Weather fine over France and the south-east of England; cloudy or dull elsewhere with mist or rain in a few places. Fine all day in the S.E.; dull with rain in the W. and N.

Temperature risen except on the eastern shores of the North Sea, readings ranging from 67° in London to 55° at Stornoway. Rising quickly during day, and 82° registered in London and at Nottingham.

Wind south-westerly to westerly, blowing lightly in the S., but strongly in the N. Fresh or strong westerly winds holding all day except in the S.E.

Sea rough at Barrow-in-Furness and Stornoway.

Barometer falling except over France and our S. coast; large area of high pressure in the S. with depression to the northward of Scotland. Pressure increasing during day, but decreasing again in N.W. at night.

Monday, July 4.

Weather very fine over central and south-eastern England and the whole of France, cloudy or dull elsewhere, with rain in Scotland. Fine all day except in the W. and N.

Temperature risen except in the E. of Scotland, and ranging from 75° at Nottingham to 53° at Wick. Rising all day, and maxima of 87° registered over central England.

Wind easterly over France and westerly to south-westerly over these Islands; moderate in force on most coasts. Light to strong westerly breezes blowing all day.

Sea moderate in the W. and N., smooth in the E.

Barometer falling over Scandinavia, rising over these Islands and France. Area of high pressure shown in the S., and shallow depression in the N. Pressure rising in the N., falling in the South later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⇒ = a gale; → = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head											
	Stornoway	58	42	57·0	47·3	52·2	−2·6	7	1·07	+0·34		17
	Wick	64	43	62·3	47·6	55·0	−0·2	7	1·13	+0·73		
Channel Islands	Scilly (St. Mary's)	67	53	63·9	54·4	59·2	−3·1	3	0·12	+0·[illegible]		
	Jersey (Noirmont)	79	50	68·3	52·6	60·5	−1·7	0	—	−0·34	91	82

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	42	64·1	49·7	56·9	− 0·3	5	0·71	+0·30	*	*
	Aberdeen	75	43	68·1	48·6	58·4	+ 0·7	6	0·92	+0·49	40	33
	Leith	70	43	66·0	49·3	57·7	− 0·2	4	0·64	+0·14	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	46	63·6	52·6	58·1	− 0·9	4	0·53	?	*	*
	Shields	72	44	65·0	50·3	57·7	− 1·8	3	0·24	−0·17	*	*
	Durham	77	43	68·3	48·8	58·6	− 1·2	2	0·37	−0·14	27	22
	York	81	45	68·9	51·1	60·0	− 0·2	0	—	−0·53	30	26
	Spurn Head	80	51	68·3	54·3	61·3	+ 0·7	1	0·02	?	*	*
	Brigg‡	84	45	71·3	50·0	60·7	− 0·4	1	0·13	?	37	31
3. ENGLAND, E.	Hillington ⁂	86	42	74·6	52·5	63·6	+ 2·5	0	—	−0·67	58	50
	Yarmouth	87	50	71·4	54·9	63·2	+ 1·8	0	—	−0·55	*	*
	Geldeston	87	45	74·7	52·9	63·8	+ 2·1	1	0·01	−0·47	67	58
	Cambridge	85	45	75·7	51·6	63·7	+ 1·2	0	—	−0·50	63	55
	Rothamsted	85	43	74·1	51·1	62·6	− 0·7	0	—	−0·59	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	84	45	72·0	50·4	61·2	+ 0·6	0	—	−0·58	*	*
	Nottingham	85	44	75·1	51·3	63·2	+ 1·3	1	0·01	−0·56	*	*
	Loughborough	84	47	72·3	53·5	62·9	+ 1·1	1	0·01	−0·55	*	*
	Leicester	82	47	70·4	52·9	61·7	− 0·9	1	0·01	−0·56	43	37
	Birmingham (Oscott)	82	45	70·9	51·4	60·7	− 1·2	0	—	−0·61	*	*
	Cheadle ⁂	77	45	65·9	50·0	58·0	− 3·5	1	0·10	?	*	*
	Churchstoke ⁂	77	45	66·7	50·2	58·5	− 2·9	1	0·03	?	33	28
	Hereford ⁂	80	46	72·1	51·7	61·9	+ 0·4	0	—	−0·48	*	*
	Cirencester	78	40	69·2	48·4	58·8	− 4·0	0	—	−0·59	55	48
	Oxford	79	46	71·4	52·7	62·1	− 1·5	0	—	−0·53	61	54
5. ENGLAND, S.	London†	87	47	76·7	52·3	64·5	+ 1·1	0	—	−0·54	63	55
	Marlborough ⁂	78	41	70·9	49·3	60·1	− 3·1	0	—	−0·47	*	*
	Strathfield Turgiss ⁂	86	43	76·2	49·3	62·8	+ 0·3	0	—	−0·29	*	*
	Dover	72	53	68·3	56·0	62·2	+ 0·5	0	—	−0·43	*	*
	Hastings (St. Leonard's)	76	52	68·1	55·4	61·8	+ 0·1	0	—	−0·36	*	*
	Southampton	82	47	73·2	51·9	62·6	+ 0·8	0	—	?	79	69
	Hurst Castle	73	47	66·6	52·4	59·5	− 2·1	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	61	50	58·8	51·5	55·2	− 1·3	7	3·50	?	*	*
	Glasgow	67	48	62·7	50·3	56·5	− 1·4	5	1·04	+0·27	23	19
	Ardrossan	82	48	62·7	51·6	57·2	− 0·7	6	1·27	+0·74	*	*
	Silloth (Cumberland)	65	47	63·1	51·4	57·3	− 2·1	5	2·19	+1·71	19	16
	Douglas (Isle of Man)	65	46	60·5	50·9	55·7	− 3·3	5	1·31	+0·88	13	11
7. ENGLAND, N.W.	Barrow-in-Furness	74	51	61·9	53·4	57·7	− 2·8	4	0·80	?	*	*
	Stonyhurst	71	47	63·5	50·7	57·1	− 3·3	5	0·99	+0·17	22	19
	Blackpool ⁂	69	50	62·6	53·6	58·1	− 2·1	3	0·46	−0·13	*	*
	Manchester	78	45	65·6	51·1	58·4	− 2·5	2	0·23	−0·46	*	*
	Liverpool Obsy (Bidston)	76	51	65·7	52·7	59·2	− 1·5	2	0·14	−0·55	*	*
	Llandudno ⁂	75	51	66·1	54·3	60·2	− 0·2	2	0·12	−0·36	37	32
	Holyhead	64	50	60·9	52·7	56·8	− 3·6	3	0·80	+0·45	*	*
8. ENGLAND, S.W.	Pembroke	62	53	59·9	54·1	57·0	− 4·3	3	0·15	−0·25	32	28
	Arlington (N. Devon)	75	46	65·1	49·9	57·5	− 4·3	5	0·16	−0·44	*	*
	Falmouth	69	52	65·8	54·1	60·0	− 2·1	1	0·02	−0·58	62	55
	Plymouth	71	47	67·9	52·7	60·3	− 1·8	1	0·02	−0·46	62	55
	Prawle Point	73	48	64·1	50·9	57·5	− 4·3	9	—	?	*	*
9. IRELAND, N.	Londonderry	67	48	63·6	50·8	57·2	− 1·6	7	1·09	+0·47	*	*
	Mullaghmore	83	49	64·4	52·6	58·5	− 1·5	7	1·19	?	*	*
	Markree Castle	70	48	62·9	51·3	57·1	− 2·7	6	0·71	+0·04	13	11
	Brookeborough	67	47	62·0	51·6	56·8	− 3·0	6	0·86	?	*	*
	Armagh	67	48	62·6	52·1	57·4	− 2·3	6	0·91	+0·35	12	10
	Donaghadee	71	46	65·0	51·0	58·0	− 1·3	4	0·55	?	*	*
10. IRELAND, S.	Dublin	76	50	67·5	54·9	61·2	+ 1·0	2	0·26	−0·32	22	19
	Parsonstown	69	44	64·3	52·0	58·2	− 1·6	4	0·59	+0·05	16	14
	Waterford										*	*
	Roche's Point	67	50	63·3	52·6	58·0	− 2·9	2	1·00	+0·42	*	*
	Valentia	65	50	62·1	53·1	57·6	− 2·7	5	1·12	+0·35	?14	?13
	Foynes	72	45	67·6	46·9	57·3	− 3·0	3	0·53	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 27.] WEEK ENDING MONDAY, JULY 11, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N. Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	72	47	64	51	58	1 below.	5	16	11 more.	20	17
	2. ENGLAND, N.E.	86	47	69	54	61	1 above.	4	12	8 more.	41	35
	3. ENGLAND, E.	89	45	71	53	62	1 below.	4	6	1 more.	50	44
	4. MID. COUNTIES	91	44	71	53	62	1 below.	4	7	2 more.	41	36
	5. ENGLAND, S.	92	41	71	53	62	1 below.	3	4	0 (average).	54	48
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	75	43	62	52	57	2 below.	5	9	3 more.	19	15
	7. ENGLAND, N.W.	84	48	65	53	59	2 below.	5	14	9 more.	34	29
	8. ENGLAND, S.W.	80	43	65	53	59	3 below.	4	5	0 (average).	45	40
	9. IRELAND, N.	74	44	64	51	58	2 below.	6	5	2 less.	15	13
	10. IRELAND, S.	76	49	64	53	59	2 below.	5	8	3 more.	21	18

General Remarks.

Weather has been continuously rainy and unsettled in Scotland and Ireland, but in England two fine periods have been experienced,—one at the commencement and another at the close of the week. The intermediate days were cloudy and unsettled, with a severe thunderstorm in many places on the night of the 5th and in the course of the 6th.

Temperature has been below the mean everywhere; in the Wheat-producing districts the deficit has been only one degree, but in the Grazing districts it has amounted to two or three degrees. In Scotland the highest readings were experienced on the 11th, but over England and Ireland they were registered on the 5th, on which day the thermometer rose above 85° in nearly all parts of eastern, southern, and central England, to 90° at Loughborough, 91° at Nottingham and Strathfield Turgiss, and 92° in London. On the following day the maxima in the same districts were from fifteen to twenty-five degrees lower, and at Liverpool as much as twenty-eight degrees lower.

Rainfall has been a little less than the mean in "Ireland, N.," and about equal to it in "England S." and "England, S.W." In all other districts it has been more than the mean, the excess being considerable in "Scotland, E.," "England, N.E.," and "England, N.W."

Bright sunshine has not been very prevalent in any district. The amount has been greatest in "England, S.," least in Ireland and Scotland.

Depressions observed.—On the evening of the 5th, a small depression passed over southern England from the south-westward, while at the same time a larger disturbance came in over our N.W. coasts. In the rear of these the wind rose to a gale from N.W. on our western and northern coasts on the night of the 6th. Some very small subsidiary depressions succeeded on the 8th and 9th, giving us variable south-westerly and north-westerly breezes, while on the night of the 10th a rather deep disturbance passed in a north-easterly direction outside our W. and N. coasts, causing fresh southerly gales in some places.

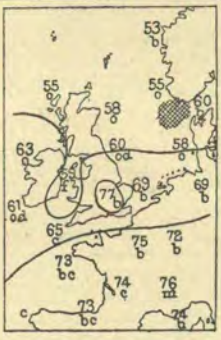
Q 7262. 100.—7/81. Wt. 230. E. & S.

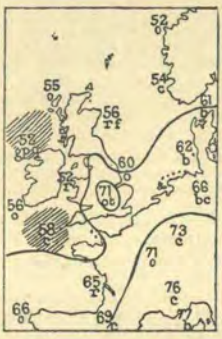
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 11, 1881.

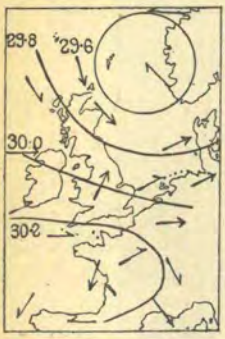
Synoptic Weather Charts.—8 a.m.

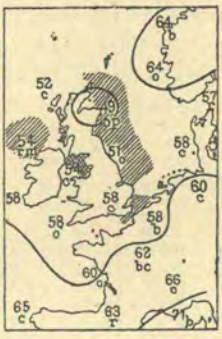
BAROMETER AND WIND.

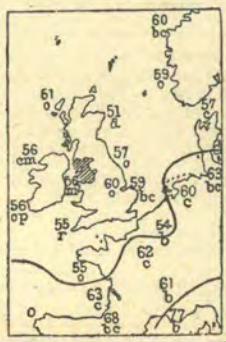
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 5.

Weather cloudy or dull all over the western and northern, but fine in the central and southern districts as well as over France. Fine all day in the S.E., but severe thunderstorm occurring all over the country at night.

Temperature risen in most places, quickly over France; readings high over England, ranging from 77° at Nottingham to 55° in N. Scotland. Maxima very high, exceeding 90° in London and Nottingham.

Wind light and variable over England, moderate from S.E. and E. over France and the Channel, and from S.W. to W. on our W. and N. coasts. Light variable breezes all day.

Sea slight round our coasts.

Barometer falling in most places, but changes slight. Readings highest in the S.E. of France and lowest over Lapland, but small depression forming in S.W. Mercury falling all day and depression passing eastward.

Wednesday, July 6.

Weather dull and unsettled in all parts of western Europe except Denmark and N. Germany; rain falling in several places, and thunder occurring over central England. Dull and showery all day, with heavy rain in Scotland.

Temperature fallen fast; readings ranging from 71° at Nottingham to 52° at Mullaghmore. Maxima over central England about 70°, or twenty degrees lower than on 5th.

Wind north-westerly all over our western coasts, south-westerly to south-easterly in the S.E. and E.; blowing strongly at some western ports, but moderate or light generally. North westerly and westerly winds prevailing everywhere later, and blowing a gale in the W. and N.

Sea rough S.W. and N.W.

Barometer rising in Scandinavia, on our S.W. coasts and in the W. of France, falling elsewhere; well marked depression shown over Great Britain. Depression passing north-eastward across the North Sea later, and pressure recovering.

Thursday, July 7.

Weather still cloudy and showery generally; continuing dull all day, but clearing in the S. and S.E. in the evening.

Temperature again fallen several degrees except in Ireland; readings ranging from 58° in the S.W. to 49° at Nairn. Maxima not exceeding 65° except at York and in London.

Wind north-westerly to westerly all over the country, and blowing freshly in most places. Backing to S.W. on all our western coasts later, little other change.

Sea rough on our N.W. and N.E. coasts.

Barometer falling over Norway, rising in all other places. Large depression shown between the Scotch and Norwegian coasts, and anticyclone lying over W. France. Pressure giving way in S.W. in the evening.

Friday, July 8.

Weather cloudy or dull in most places except the E. of France and N. Germany; rain falling on our S.W. coasts. Cloudy or dull all day with showers, except on our N.W. coasts.

Temperature fallen in the S.W. and S., risen in the N.; readings ranging from 60° in London to 51° at Aberdeen. Maxima below 70° everywhere, and below 60° at several western stations.

Wind rather variable; easterly over France, between S.W. and S.E. on most of our coasts, but north-westerly at Valentia and in Scotland. Little change during day.

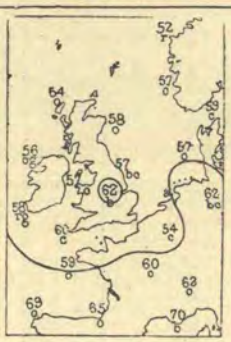
Sea rough at Barrow-in-Furness.

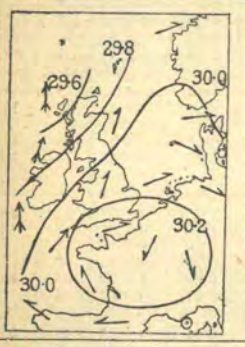
Barometer falling all over France and the southern half of the Kingdom, rising in Scandinavia and the northern half. Anticyclone over France, with small depression on our S.W. coasts, and larger one over Norway and Sweden. Depression in S.W. growing deeper later, but mercury recovering in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 9.

Weather fine over nearly the whole of England, dull with slight rain on the Continent generally and on our W. and N. coasts. Showers of rain occurring in all places during the day.

Temperature risen a little; readings ranging from 62° at Dover to 54° at Wick. Rising briskly during day, reaching 75° at Nottingham and 71° in London.

Wind varying between S.W. and N.W.; blowing strongly over the Bay of Biscay, but lightly on all our coasts; increasing to a strong breeze from W. during the day at some western stations.

Sea slight.

Barometer falling in Ireland, rising elsewhere. Pressure highest over Spain with shallow depression over S. Sweden, and fresh disturbance approaching our N.W. coasts, Latter disturbance coming nearer later and causing decrease in Scotland.

Sunday, July 10.

Weather still cloudy or dull at our western and northern stations as well as on the Continent, generally fine over the greater part of England. Little change during the day.

Temperature risen generally; readings ranging from 66° at Dover to 55° at Stornoway. Brisk rise over England during day, and 74° reached at Nottingham and in London.

Wind westerly on nearly all coasts, but southerly at Valentia, blowing freshly at a few places, but moderately generally. Strong southerly winds experienced all along our W. coasts later.

Sea rough S.W.

Barometer falling in the N.E. of Scotland and over Scandinavia, rising elsewhere. Readings highest over France, with small depression over the Moray Firth and larger one over Scandinavia. Fresh and rather deep depression appearing in N.W. later.

Monday, July 11.

Weather fine over France and the greater part of England, dull with misty rain on our W. and N. coasts. No change of importance later.

Temperature risen generally, ranging from 70° in London to 57° at Wick; rising briskly during the day in the E., and reaching 79° at Nottingham and Cambridge, and 78° at York and in London.

Wind southerly in nearly all parts of the country; light in the E., but gradually increasing in a westerly direction and reaching a gale in the extreme W. Veering to S.W. later.

Sea rough all along our W. coasts.

Barometer rising over the E. of France and S.E. of England as well as in N. Germany and over Scandinavia, but falling quickly in the W. Large depression shown near the Hebrides. Slight recovery commencing in W. later and depression moving away.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	60	48	57·3	49·6	53·5	−1·8	6	0·61	−0·12	10	8
	Stornoway	71	47	61·0	49·0	55·0	−0·7	5	1·66	+1·26	*	*
	Wick	69	51	65·1	54·6	59·9	−2·9	4	0·48	−0·07	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	85	52	68·6	55·7	62·2	−0·5	3	0·08	−0·28	57	52

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow?:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	72	47	63·0	51·3	57·2	− 0·6	4	1·39	+0·91	*	*
	Aberdeen	69	48	62·3	50·6	56·5	− 1·5	6	2·16	+1·65	20	17
	Leith	70	48	65·9	52·1	59·0	+ 0·7	5	1·32	+0·79	*	*
2. ENGLAND, N.E.	Alnwick Castle	72	49	66·0	53·4	59·7	+ 0·5	4	1·58	?	*	*
	Shields	76	47	67·1	53·1	60·1	+ 0·3	5	1·39	+0·93	*	*
	Durham	82	48	71·3	52·0	61·7	+ 1·5	5	1·58	+1·05	35	30
	York	84	48	71·7	54·6	63·2	+ 2·4	4	0·78	+0·26		
	Spurn Head	77	51	65·9	55·4	60·7	− 0·3	3	1·02	?	*	*
	Brigg‡	86	48	71·4	53·7	62·6	+ 1·3	4	0·98	?	46	40
3. ENGLAND, E.	Hillington	89	47	72·8	52·1	62·5	+ 0·7	3	1·09	+0·72	46	40
	Yarmouth	78	49	67·1	55·3	61·2	− 1·0	4	0·36	−0·22	*	*
	Geldeston	84	49	71·2	54·0	62·6	+ 0·3	3	0·24	−0·29	53	46
	Cambridge	89	45	72·9	52·3	62·6	− 0·8	4	0·67	+0·15	51	45
	Rothamsted	89	46	72·4	51·8	62·1	− 1·9	4	0·58	−0·02	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	89	46	75·1	54·1	64·6	+ 3·6	3	0·43	−0·17	*	*
	Nottingham	91	45	74·6	53·7	64·2	+ 1·7	4	0·84	+0·24	*	*
	Loughborough	90	49	72·0	55·5	63·8	+ 1·7	4	0·78	+0·24	*	*
	Leicester	86	49	71·8	53·2	62·4	− 0·8	4	0·62	+0·03	42	36
	Birmingham (Oscott)	82	45	68·5	50·3	59·4	− 2·4	4	0·56	?	*	*
	Cheadle	83	44	67·3	50·6	59·0	− 2·8	4	0·45	?	33	29
	Churchstoke	86	44	70·2	52·1	61·2	− 1·0	3	0·81	+0·29	*	*
	Hereford	88	44	69·7	52·0	60·9	− 2·5	5	0·95	+0·34	47	42
	Cirencester	87	44	70·3	53·6	62·0	− 2·2	5	1·22	+0·68	48	43
5. ENGLAND, S.	London†	92	46	73·3	53·9	63·6	− 0·5	4	0·79	+0·24	47	42
	Marlborough	87	43	73·5	50·3	61·9	− 2·0	4	0·39	−0·11	*	*
	Strathfield Turgiss	91	41	74·5	50·0	62·3	− 0·7	2	0·28	−0·22	*	*
	Dover	76	50	67·9	55·3	61·6	− 0·9	4	0·41	−0·04	*	*
	Hastings (St. Leonard's)	84	49	69·7	54·4	62·1	− 0·2	1	0·40	+0·02	*	*
	Southampton	84	44	71·9	53·3	62·6	− 0·2	5	0·15	?	60	53
	Hurst Castle	80	46	66·9	54·1	60·5	− 1·6	4	0·36	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	65	49	60·9	52·1	56·5	− 0·5	7	1·07	?	*	*
	Glasgow	65	47	63·1	52·0	57·6	− 0·9	5	1·41	+0·61	15	12
	Ardrossan	67	47	60·6	51·7	56·2	− 2·1	5	0·37	−0·21	*	*
	Silloth (Cumberland)	75	47	64·8	53·1	59·0	− 0·9	3	0·72	+0·21	23	19
	Douglas (Isle of Man)	65	43	61·2	50·4	55·8	− 3·7	6	1·07	+0·59	18	15
7. ENGLAND, N.W.	Barrow-in-Furness	77	49	63·0	53·0	58·0	− 3·2	7	1·80	?	*	*
	Stonyhurst	79	49	65·4	51·3	58·4	− 2·8	6	1·75	+1·37	32	28
	Blackpool	77	50	63·8	53·8	58·8	− 2·0	6	1·88	+1·21	*	*
	Manchester	82	48	68·1	52·1	60·1	− 1·1	5	1·50	+0·78	*	*
	Liverpool Obsy (Bidston)	84	50	66·4	54·0	60·2	− 0·9	4	0·76	−0·04	*	*
	Llandudno	73	48	65·3	54·2	59·8	− 1·1	4	1·87	+1·39	35	30
	Holyhead	70	50	61·4	52·7	57·1	− 3·7	6	0·87	+0·52	*	*
8. ENGLAND, S.W.	Pembroke	74	50	61·7	53·0	57·4	− 4·6	6	0·81	+0·39	40	36
	Arlington (N. Devon)	80	43	65·4	49·6	57·5	− 4·8	5	0·49	−0·19	*	*
	Falmouth	70	53	64·8	55·5	60·2	− 2·5	3	0·56	−0·04	46	42
	Plymouth	79	49	67·8	55·0	61·4	− 1·2	3	0·36	−0·19	49	43
	Prawle Point	74	48	64·4	52·6	58·5	− 3·6	4	0·46	?	*	*
9. IRELAND, N.	Londonderry	74	46	65·3	49·8	57·6	− 1·9	6	0·47	−0·23	*	*
	Mullaghmore	70	46	62·1	52·1	57·1	− 3·1	6	0·64	?	*	*
	Markree Castle	71	47	63·2	50·2	56·7	− 3·6	7	0·23	−0·39	13	11
	Brookeborough	73	44	65·0	51·4	58·2	− 2·0	6	0·41	?	*	*
	Armagh	73	48	65·2	52·2	58·7	− 1·4	6	0·60	−0·07	16	14
	Donaghadee	67	48	62·7	51·6	57·2	− 2·3	5	0·66	?	*	*
10. IRELAND, S.	Dublin	76	50	66·7	54·7	60·7	0·0	5	0·46	−0·10	19	16
	Parsonstown	75	50	64·3	53·3	58·8	− 1·5	5	0·71	+0·12	20	17
	Waterford										*	*
	Roche's Point	68	50	63·6	50·7	57·2	− 3·8	5	1·40	+0·80	*	*
	Valentia	64	49	62·6	53·7	58·2	− 2·7	6	0·97	+0·16	24	21
	Foynes	74	49	64·9	51·6	58·3	− 2·6	6	0·61	?	*	*

Stations marked ⊕ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Errata.—On p. 1 of the Report for week ending July 4th for "Highest Observed" in "Ireland, N." read 71; and on p. 4 for "Highest Observed" at Mullaghmore read 63.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 28.] WEEK ENDING MONDAY, JULY 18, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

1.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	75	47	65	54	59	1 above.	2	5	1 less.	45	38
	2. ENGLAND, N.E.	86	48	74	55	65	4 above.	1	1	4 less.	54	47
	3. ENGLAND, E.	91	49	81	57	69	6 above.	0	—	6 less.	82	73
	4. MID. COUNTIES	90	42	79	55	67	4 above.	1	less than ½	6 less.	70	62
	5. ENGLAND, S.	95	48	80	58	69	5 above.	0	—	5 less.	79	70
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	71	43	64	53	59	0 (average).	6	5	2 less.	41	35
	7. ENGLAND, N.W.	79	46	67	55	61	0 (average).	2	4	3 less.	49	42
	8. ENGLAND, S.W.	82	48	70	55	62	0 (average).	2	less than ½	6 less.	73	64
	9. IRELAND, N.	73	38	67	53	60	0 (average).	4	3	5 less.	33	28
	10. IRELAND, S.	77	48	68	55	61	0 (average).	3	2	5 less.	39	34

General Remarks.

Weather has been very fine and hot over England, but cloudy and unsettled in Ireland and Scotland, especially in the extreme western and northern parts of those countries. A slight thunderstorm occurred in the S.W. of England on the evening of the 18th.

Temperature has been above the mean in all the Wheat-producing districts, but in the grazing districts it has been about the average. In many parts of England the temperature for the week has been as much as seven degrees higher than the mean. The maxima occurred generally on the 15th, when the thermometer rose above 90° at several English stations, and reached 95° in London. The nights have, however, been comparatively cool, and on those of the 16th and 17th the minima over England were below 50°.

Rainfall has been less than the mean in all districts, and in many parts of England the week has been absolutely dry.

Bright sunshine has been very prevalent over England except in the north-western districts, but much less general in Ireland and Scotland. In "England, E." the amount has exceeded seventy per cent. of the possible duration.

Depressions observed.—During the greater part of the week pressure has been relatively high over France and the S. of England, while a series of depressions has passed in a north-easterly direction outside our western and northern coasts. The winds have, therefore, been generally from the south-westward,—light in the E. and S., but occasionally strong at the more exposed western and northern stations. On the 16th, in the rear of one of these disturbances, pressure for a time became highest to the westward of Ireland, and northerly breezes consequently prevailed temporarily.

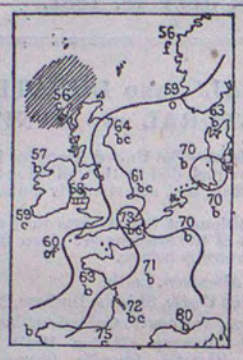
Q 7399. 100.—7/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending July 18, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, July 12.

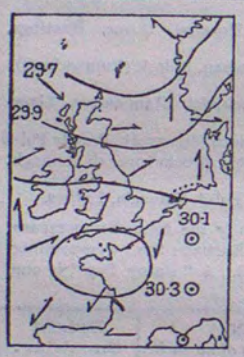
Weather fine at the majority of stations, but cloudy with showers or mist in some western and southern places. Dull in the W. and N. all day, very fine elsewhere.

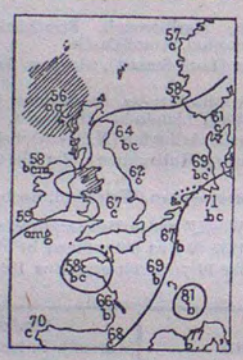
Temperature fallen somewhat except in the N.E. and S.E.; readings ranging from 73° in London, to 56° in the W. of Scotland. Rising briskly later, and 80° registered over central England.

Wind south-westerly over these Islands, varying from a strong breeze in the W. and N.W. to a light air in the S.E. No change of importance during day.

Sea rough round the Hebrides.

Barometer rising in the N. and W., falling in the S.E. and in most parts of the continent. Readings highest over France, lowest to the northward of Scotland. Very little change during day.





Wednesday, July 13.

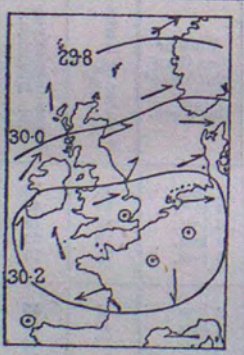
Weather very fine over France, the S.E. of England, and parts of Scotland, dull elsewhere, with mist in places. Very fine all day over England and the E. of Scotland.

Temperature fallen except on our W. coasts, readings ranging from 69° at Dover to 56° at Stornoway. Rising fast during day, and maxima of about 80° registered over central England.

Wind westerly on nearly all our coasts, but southerly at Valencia and north-westerly at Stornoway. Wind westerly all day, blowing strongly in the W. and lightly in the S.E.

Sea rough at Barrow-in-Furness and Stornoway.

Barometer rising except in the N.E. Anticyclone lying over the W. of France and a depression to the northward of Scotland. Mercury rising all day, distribution unaltered.



Thursday, July 14.

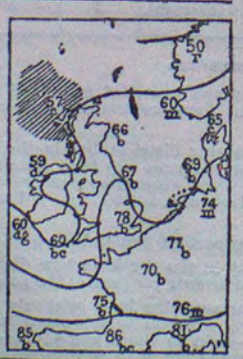
Weather little changed, very fine over France and the greater part of England, dull in the W. and N., with rain at Stornoway. Cloud and rain continuing in the extreme W. and N., but very fine elsewhere.

Temperature fallen very slightly in London and at some western stations, ranging from 72° at Nottingham to 54° at Stornoway. Rising rapidly later, and maxima of above 85° registered over England.

Wind south-westerly to westerly all over the northern part of our area and easterly in France, blowing strongly over Scandinavia, but light or moderate elsewhere. Backing somewhat during day and rising to a gale at Stornoway.

Sea moderate or slight, except at Barrow-in-Furness.

Barometer rising except at Valencia and over France. Anticyclone still holding in south, with depression in extreme north. Pressure giving way slowly all day.



Friday, July 15.

Weather still very fine over the whole of France, the greater part of England, and the E. of Scotland; dull elsewhere, with rain in W. Ireland and W. Norway. No change during day.

Temperature risen generally, very quickly in S.E., readings ranging from 78° in London to 57° at Stornoway. Rapid rise occurring during day, and 100° degrees registered at Biarritz, 95° in London, and 91° at Cambridge.

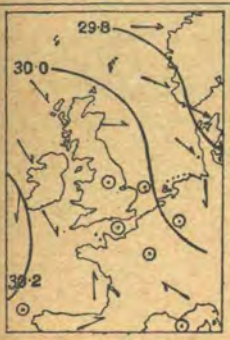
Wind easterly over France, light and variable in the S.E., and moderate to fresh from S.W. and W. elsewhere; veering to N.W. and N. in the N. and W. later, but remaining variable and light in the S.E.

Sea rough round the Hebrides.

Barometer falling everywhere; large area of high pressure shown in the S. with depression over N. Scotland. Mercury falling in the S.E. and rising in the W. and N. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 16.

Weather little changed; very fine over France and the eastern districts of Great Britain; cloudy in the W., foggy in the S.W. Slight thunder over London at 2 P.M., but fine on the whole.

Temperature risen in the E. of France, fallen elsewhere—briskly in the E., readings ranging from 72° at Hurst Castle to 53° at Nairn. Maxima 83° in London, between 75° and 80° at our other inland and eastern stations.

Wind north-westerly and northerly all over the country, light or moderate; strong westerly winds in Scandinavia; light northerly and north-westerly breezes prevailing on most coasts all day.

Sea rough in the Skager Rack.

Barometer rising except in Sweden—quickly in Scotland. Area of high pressure lying off our W. coasts with depression near Bodö. Pressure decreasing slowly during day.

Sunday, July 17.

Weather still dull with some rain over Ireland and the W. of Scotland, but fine elsewhere. Fine all day in the S.E. and S., dull and rainy in the W. and N.

Temperature fallen over France and our eastern, central, and southern stations, risen elsewhere; readings ranging from 66° in the S. to 53° in the Hebrides. Maxima exceeding 80° at our inland stations.

Wind variable or north-easterly over France and the greater part of England, but southerly on our W. and N. coasts. Fresh southerly to westerly winds prevailing all day in most places.

Sea moderate or smooth.

Barometer falling except over France, the S.E. of England, and N. Germany. Area of high pressure lying over England and the Channel, with large disturbance in Lapland and smaller one advancing on our N.W. coasts. Latter depression passing over Scotland during day, and barometer falling everywhere.

Monday, July 18.

Weather exceedingly fine all over the E. and S. of England and the whole of France, cloudy or dull elsewhere with fog in the S.W. No change of importance.

Temperature risen generally—most in E.; readings ranging from 73° in London to 56° at Stornoway. Rising briskly during day and maxima of nearly 90° registered at inland stations.

Wind south-westerly and westerly at all our stations and over the North Sea, easterly in France, moderate or light in force generally. Light westerly breezes continuing all day.

Sea slight generally.

Barometer rising on our N. and N.W. coast, falling slightly elsewhere. Mercury falling in the S. and rising in the N. all day, changes very slight, and pressure remaining highest in S.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	61	48	59·0	51·1	55·1	−0·6	7	0·40	−0·33	28	23
	Wick	76	46	65·9	51·6	58·8	+2·8	3	0·25	−0·15	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	70	55	66·0	56·4	61·2	−2·0	1	0·03	−0·51	*	*
	Jersey (Noirmont)	85	53	76·4	58·7	67·6	+4·8	0	—	−0·40	95	87

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	71	47	65·4	54·1	59·8	+ 1·8	1	0·26	−0·29	*	*
	Aberdeen	75	50	71·6	53·6	57·6	− 0·9	2	0·48	−0·10	45	38
	Leith	74	48	67·0	54·0	60·5	+ 1·9	2	0·73	+0·16	*	*
2. ENGLAND, N.E.	Alnwick Castle	73	51	68·6	55·6	62·1	+ 2·3	2	0·18	?	*	*
	Shields	78	51	70·4	54·6	62·5	+ 2·7	1	0·05	−0·46	*	*
	Durham	78	48	74·0	54·2	64·1	+ 3·7	1	0·22	−0·34	56	48
	York	80	50	75·6	56·3	66·0	+ 4·9	1	0·01	−0·48		
	Spurn Head	84	53	75·0	56·7	65·9	+ 4·7	0	—	?	*	*
	Brigg‡	86	49	78·5	54·1	66·3	+ 4·5	0	—	?	64	56
3. ENGLAND, E.	Hillington ℳ	90	49	81·3	54·5	67·9	+ 5·7	1	0·04	−0·54	81	71
	Yarmouth	84	55	75·0	58·9	67·0	+ 4·3	0	—	−0·58	*	*
	Geldeston	91	53	81·6	57·3	69·5	+ 7·1	0	—	−0·56	83	74
	Cambridge	91	49	82·6	55·3	69·0	+ 5·2	0	—	−0·52		
	Rothamsted	90	50	82·0	57·1	69·6	+ 5·0	1	0·02	−0·59	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	87	48	79·3	52·9	66·1	+ 4·6	0	—	−0·62	*	*
	Nottingham	90	49	84·3	55·1	69·7	+ 7·1	0	—	−0·61	*	*
	Loughborough	85	49	79·9	56·7	68·3	+ 5·8	1	0·03	−0·48	*	*
	Leicester	87	49	80·5	55·8	68·2	+ 4·6	1	0·03	−0·56	68	60
	Birmingham (Oscott)										*	*
	Cheadle ℳ										*	*
	Churchstoke ℳ	81	42	75·6	52·7	64·2	+ 2·1	0	—	?	62	54
	Hereford ℳ	85	45	79·2	53·4	66·3	+ 3·7	0	—	−0·55	*	*
	Cirencester	87	50	77·9	53·3	65·6	+ 1·9	1	0·01	−0·61	75	66
	Oxford	87	52	78·3	56·1	67·2	+ 2·7	1	0·03	−0·51	74	66
5. ENGLAND, S.	London†	95	52	85·1	59·3	72·2	+ 7·7	1	0·05	−0·50	77	69
	Marlborough	87	51	79·6	54·4	67·0	+ 2·8	0	—	−0·54	77	69
	Strathfield Turgiss ℳ	94	48	85·8	52·7	69·3	+ 6·1	1	0·03	−0·49	*	*
	Dover	80	59	73·4	61·4	67·4	+ 4·6	0	—	−0·45	*	*
	Hastings (St. Leonard's)	86	55	75·1	61·8	68·5	+ 5·8	0	—	−0·39	*	*
	Southampton	92	52	83·8	57·0	70·4	+ 7·1	1	0·01	?	82	73
	Hurst Castle	81	54	75·4	56·4	65·9	+ 3·2	0	—	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	68	46	62·8	51·5	57·2	− 0·2	5	1·47	?	*	*
	Glasgow	71	46	65·0	52·5	58·8	0·0	5	0·80	−0·05	37	31
	Ardrossan	64	46	62·3	52·6	57·5	− 1·1	4	0·38	−0·24	*	*
	Silloth (Cumberland)	69	47	66·8	53·6	60·2	+ 0·2	3	0·39	−0·16	41	35
	Douglas (Isle of Man)	67	50	64·0	53·3	58·7	− 1·1	3	0·36	−0·16	45	39
7. ENGLAND, N.W.	Barrow-in-Furness	65	54	63·4	55·7	59·6	− 1·9	2	0·46	?	*	*
	Stonyhurst	72	51	67·9	53·6	60·8	− 0·7	3	0 45	−0·47	45	39
	Blackpool ℳ	66	47	64·2	55·4	59·8	− 1·2	2	0·58	−0·11	*	*
	Manchester	79	50	70·4	53·4	61·9	+ 0·4	0	—	−0·74	*	*
	Liverpool Obsy (Bidston)	73	46	69·1	56·3	62·7	+ 1·1	1	0·18	−0·74	*	*
	Llandudno ℳ	73	51	69·1	56·0	62·6	+ 1·2	1	0·49	−0·01	52	45
	Holyhead	66	53	63·6	54·7	59·2	− 1·8	2	0·53	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	65	51	62·4	55·0	58·7	− 3·5	3	0·10	−0·39	46	41
	Arlington (N. Devon)	74	48	71·0	51·4	61·2	− 1·7	3	0·03	−0·68	*	*
	Falmouth	76	55	70·8	56·6	63·7	+ 0·7	1	0·02	−0·59	80	72
	Plymouth	82	53	74·0	55·3	64·7	+ 2·0	1	0·01	−0·61	88	80
	Prawle Point	79	53	72·0	55·7	63·9	+ 1·5	0	—	?	*	*
9. IRELAND, N.	Londonderry	73	46	66·1	52·0	59·1	− 1·0	5	0·39	−0·36	*	*
	Mullaghmore	69	45	64·0	54·9	59·5	− 0·7	4	0·47	?	*	*
	Markree Castle	70	38	67·0	51·6	59·3	− 1·1	4	0·13	−0·47	28	24
	Brookeborough	72	42	66·6	53·4	60·6	− 0·3	3	0·24	?	*	*
	Armagh	73	51	67·0	55·2	61·1	+ 0·7	3	0·20	−0·52	37	32
	Donaghadee	72	47	69·3	53·0	61·2	+ 1·6	2	0·43	?	*	*
10. IRELAND, S.	Dublin	77	55	71·3	58·3	64·8	+ 4·0	1	0·13	−0·42	46	41
	Parsonstown	76	50	69·9	54·1	62·0	+ 1·2	3	0·04	−0·60	49	43
	Waterford										*	*
	Roche's Point	67	51	64·7	54·0	59·4	− 1·6	1	0·25	−0·38	*	*
	Valencia	66	48	64·4	55·0	59·7	− 1·4	6	0·25	−0·62	21	19
	Foynes	73	50	69·2	53·4	61·3	+ 0·1	4	0·24	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 29.] WEEK ENDING MONDAY, JULY 25, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan: the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	68	45	62	50	56	2 below.	5	10	4 more.	27	23
	2. ENGLAND, N.E.	77	42	66	50	59	2 below.	4	5	1 less.	36	32
	3. ENGLAND, E.	88	43	71	53	62	1 below.	4	2	5 less.	46	42
	4. MID. COUNTIES	89	41	69	51	60	3 below.	4	3	3 less.	37	33
	5. ENGLAND, S.	89	43	71	55	63	1 below.	4	2	2 less.	39	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	68	42	62	50	56	6 below.	6	6	1 less.	41	36
	7. ENGLAND, N.W.	67	46	62	52	57	4 below.	4	4	4 less.	32	29
	8. ENGLAND, S.W.	79	48	65	54	59	3 below.	5	6	2 less.	32	29
	9. IRELAND, N.	68	40	62	50	56	4 below.	6	9	4 more.	28	25
	10. IRELAND, S.	68	41	63	52	57	4 below.	4	4	3 less.	40	36

General Remarks.

Weather has been much more unsettled and cloudy than of late; showers have fallen in all places, and rather heavy rain in the N. of Ireland and E. of Scotland. A thunderstorm was experienced at several of our north-eastern and north-western stations on the 24th.

Temperature was above the mean at the commencement of the period, but changed rather suddenly on the 20th; and, as a consequence, the readings for the week were below the mean in all districts, the deficit ranging from 6° in "Scotland, W." to 1° in the S. and E. of England. The maxima were registered on the 19th, when the thermometer rose to 88° or 89° at some of the stations in the eastern, southern, and midland districts. The minima occurred on the 21st, and were as low as 40° at Brookeborough, and 41° at Parsonstown and Churchstoke; in most other districts the lowest readings varied between 42° and 45°.

Rainfall was rather more than the mean in "Scotland, E." and "Ireland, N.," but less elsewhere.

Bright sunshine was much less prevalent than it was during last week, the percentages ranging from 42 in "England, E." to 23 in "Scotland, E."

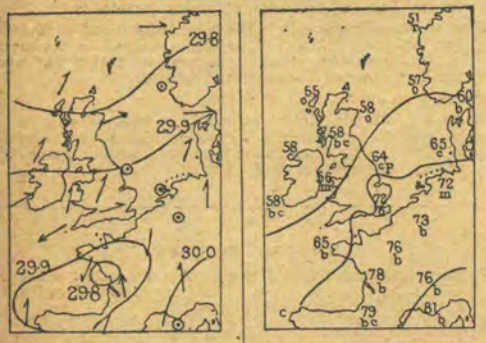
Depressions observed.—The barometer has been highest over the southern part of our area and lowest to the northward. Three distinct depressions have travelled in a north-easterly or easterly direction across Scotland, causing the wind to vary between S.W., W., and N.W. on all our coasts and at times to blow freshly at some of our more northern stations, or even with the force of a strong squally gale. On the night of the 20th, the north-westerly gale in the Shetlands was unusually severe.

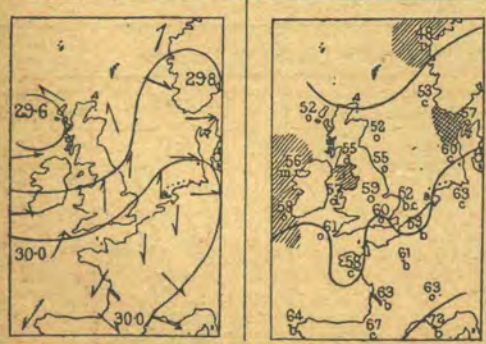
Q 7471. 100.—7/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending July 25, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 19.

Weather fine in the S. of Ireland, the S.E. of England, and over France; dull with some showers elsewhere. Fine all day in the E., dull and rainy elsewhere; thunder at Jersey.

Temperature fallen except in the S.E. of England, readings ranging from 73° at Nottingham to 55° at Stornoway. Maxima 89° at Nottingham and in London, and between 80° and 86° at our other central and south-eastern stations.

Wind light or moderate from the westward over nearly the whole of these Islands, but light from E. over the Channel and from N.E. in the N.W. of France. Wind backing and increasing in W., but light and variable in S.E.

Sea slight or smooth.

Barometer falling everywhere except Scandinavia. Readings highest in S. France with shallow depression to the northward of Scotland, and small disturbance over the Bay of Biscay. Latter depression passing eastward over France.

Wednesday, July 20.

Weather unsettled; fine in a few places, but dull generally with rain in the W. of Ireland, in the S.E. coast of England, and over the W. of France. Cloudy and showery all day, but fine in the evening.

Temperature fallen several degrees generally, most in the S.E., and readings ranging from 67° at Dover to 52° at Stornoway. Maxima 80° at Hurst Castle and above 70° in Southern and Central England.

Wind north-westerly to northerly generally, but south-westerly in the E. of Scotland; north-westerly and northerly winds all day, reaching the force of a slight gale at Nairn, and heavy gale in the Shetlands at night.

Sea rough at Mullaghmore and Scilly.

Barometer rising somewhat in Ireland and France, falling elsewhere; pressure highest off our S.W. coasts with depression over the N. of Scotland. Barometer rising except in N.E. during day, and disturbance moving eastward.

Thursday, July 21.

Weather moderately fine over nearly the whole of these Islands, but cloudy and thundery at Biarritz and cloudy and rainy over Scandinavia. Rain commencing in W. Ireland later.

Temperature again fallen somewhat; readings ranging from 62° in the S.W. to 50° in the Hebrides. Maxima exceeding 70° at the south-eastern and central stations, below 65° in most other places.

Wind southerly in W. Ireland, westerly in Scotland, and northerly over England and the North Sea. Moderate in the N., light elsewhere. Southerly wind in Ireland increasing and spreading during day.

Sea slight nearly everywhere.

Barometer falling over Scandinavia and depression shown in the N. of that region, but rising at all our stations except Valentia. Large anticyclone over us. Falling briskly in W. later.

Friday, July 22.

Weather very unsettled; fine on our extreme S.E. coasts and in N. France, dull elsewhere, with rain in the N.W. Cloudy showery weather prevailing generally all day.

Temperature risen slightly except in N. Scotland, and readings ranging from 62° at Yarmouth to 47° at Nairn. Maxima varying between 53° and 67°.

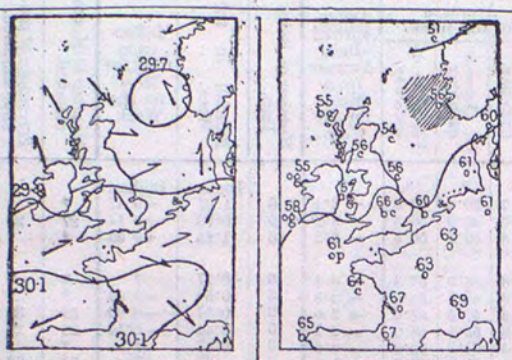
Wind westerly in Ireland, southerly over England and the greater part of Scotland, and south-easterly at Stornoway. Moderate to fresh in force. Veering to N. in Scotland later and to W. in England.

Sea rough to the westward of Ireland and at Christiansund, high at the Scaw.

Barometer risen over France, N. Germany, and Scandinavia, fallen over these Islands—quickly in the N.W. Deep depression shown to the westward of Scotland. Falling all day in the E., rising in the W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 23.

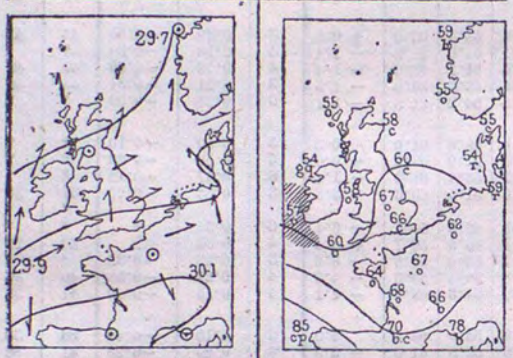
Weather cloudy or dull at all but some eastern stations; showers reported from Wick and Scilly. Little change during day but rain falling in W. Scotland.

Temperature risen slightly and ranging from 66° at Nottingham to 53° in N. Scotland. Maxima exceeding 70° over Central England but below 60° in the extreme N.

Wind south-south-easterly in the N. of Ireland and at Stornoway, westerly in most other places. Light or moderate in force generally. Backing somewhat during day and southerly breezes blowing over Scotland.

Sea rough on the W. coast of Norway.

Barometer falling on our extreme W. coasts as well as in Norway, rising elsewhere. Pressure highest over the Bay of Biscay with disturbance near Skudesnaes. Fresh depression appearing in N.W. later.



Sunday, July 24.

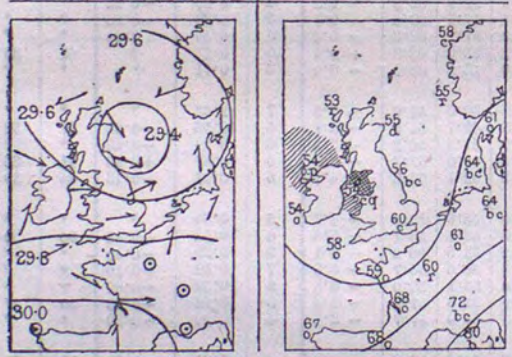
Weather dull and unsettled except at a few eastern stations, rain falling in some places. Cloudy in most places all day, and some rain falling very generally.

Temperature fallen in the W. risen slightly elsewhere; readings ranging from 67° at Nottingham to 54° in N. Ireland. Maxima again a little above 70° over central England.

Wind light or moderate, varying from W. in the S. to S. in the N. Veering in the W. later, and reaching a strong breeze from W.N.W. in Ireland.

Sea rough at Valentia, moderate or slight elsewhere.

Barometer falling generally; readings highest over central France, lowest off the N.W. coast of Scotland. Depression advancing across Scotland from westward later, and mercury falling briskly.



Monday, July 25.

Weather fair at a few eastern and southern stations, dull elsewhere with rain in N. Scotland. Rain greater part of day in the N. and N.E. and commencing in S.W. in the evening.

Temperature fallen everywhere — most in east — readings ranging from 63° at Dover to 53° in the Hebrides. Maxima between 56° and 66° generally, but 68° at York and 69° in London.

Wind easterly in Norway and Scotland, westerly over England and France, and southerly on the eastern shores of the North Sea. Blowing freshly or strongly except in the N. Veering to N. in the N. and W. and an easterly wind springing up at Scilly.

Sea rough in the N.W.

Barometer falling everywhere—well marked depression shown in the N.E., and fresh disturbance appearing in S.W. Rising in the N. later, but falling in S., and depression in S.W. becoming much deeper.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	58	38	56·7	47·4	52·1	−3·9	6	1·50	+0·78	24	20
	Wick	66	47	60·3	49·6	55·0	−1·0	6	0·55	+0·15	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	66	56	64·0	56·9	60·5	−2·5	4	0·64	+0·12	*	*
	Jersey (Noirmont)	77	53	67·6	56·7	62·2	−0·8	4	1·07	+0·64	40	37

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	68	46	60·7	50·4	55·6	− 2·4	6	1·07	+0·47	*	*
	Aberdeen	67	47	63·6	48·9	56·3	− 2·2	5	0·78	+0·14	27	23
	Leith	68	45	62·4	50·6	56·5	− 2·2	6	1·25	+0·65	*	*
2. ENGLAND, N.E.	Alnwick Castle	68	43	63·6	48·9	56·3	− 3·4	6	0·77	?	*	*
	Shields	68	42	63·0	48·7	56·9	− 2·8	3	0·50	−0·03	*	*
	Durham	70	43	67·6	47·5	57·6	− 2·0	2	0·57	−0·03	39	35
	York	70	44	67·6	50·1	58·9	− 2·1	5	0·44	−0·14	33	29
	Spurn Head	72	49	66·4	54·6	60·5	− 0·6	3	0·37	?	*	*
	Brigg‡	77	44	70·0	51·3	60·7	− 1·0	3	0·35	?	36	32
3. ENGLAND, E.	Hillington 𝔐	86	48	70·9	53·5	62·2	+ 0·1	3	0·20	−0·55	46	41
	Yarmouth	80	50	69·1	54·6	61·9	− 1·1	4	0·16	−0·50	*	*
	Geldeston	88	43	71·4	51·7	61·6	− 1·4	4	0·12	−0·49	49	45
	Cambridge	86	46	71·6	53·3	62·5	− 1·5	3	0·21	−0·31	44	40
	Rothamsted	85	48	70·3	53·2	61·8	− 3·1	5	0·21	−0·39	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	42	72·0	50·0	61·0	− 0·5	5	0·50	−0·10	*	*
	Nottingham	89	42	73·6	51·0	62·3	− 0·6	3	0·38	−0·23	*	*
	Loughborough	81	46	69·1	53·3	61·2	− 1·4	5	0·37	−0·12	*	*
	Leicester	80	46	69·6	51·5	60·6	− 3·3	3	0·33	−0·27	37	33
	Birmingham (Oscott)										*	*
	Cheadle 𝔐	68	45	63·3	48·8	56·1	− 6·1	6	0·34	?	*	*
	Churchstoke 𝔐	69	41	64·8	48·5	56·7	− 5·4	4	0·32	?	30	27
	Hereford 𝔐	74	43	68·7	50·8	59·8	− 3·2	3	0·23	−0·32	*	*
	Cirencester	81	45	68·8	50·4	59·6	− 4·2	4	0·27	−0·38	40	36
	Oxford	82	49	69·9	54·3	62·1	− 2·1	4	0·15	−0·40	41	37
5. ENGLAND, S.	London†	89	51	73·0	55·9	64·5	0·0	2	0·10	−0·44	36	33
	Marlborough 𝔐	84	46	70·6	52·5	61·6	− 2·9	4	0·29	−0·26	41	38
	Strathfield Turgiss 𝔐	89	43	73·0	51·0	62·0	− 1·8	4	0·29	−0·22	*	*
	Dover	77	? 50	67·4	57·1	62·3	− 0·7	4	0·23	−0·22	*	*
	Hastings (St. Leonard's)	81	53	67·9	57·2	62·6	− 0·4	5	0·40	0·00	*	*
	Southampton	88	51	72·2	55·6	63·9	+ 0·4	5	0·21	?	41	38
	Hurst Castle	80	51	70·0	55·0	62·5	− 0·4	3	0·11	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	63	47	59·5	50·5	55·0	− 7·8	7	2·03	?	*	*
	Glasgow	65	46	61·8	49·7	55·8	− 8·1	5	0·55	−0·33	37	32
	Ardrossan	62	46	60·9	51·4	56·2	− 7·3	6	0·49	−0·20	*	*
	Silloth (Cumberland)	68	44	64·8	50·0	57·4	− 2·6	6	0·87	+0·26	41	36
	Douglas (Isle of Man)	65	42	61·5	49·1	55·3	− 4·7	6	0·47	−0·13	44	39
7. ENGLAND, N.W.	Barrow-in-Furness	62	49	60·9	53·0	57·0	− 4·7	5	0·64	?	*	*
	Stonyhurst	66	46	63·5	48·7	56·1	− 5·8	4	0·53	−0·42	34	30
	Blackpool 𝔐	64	49	61·2	52·5	56·9	− 4·1	3	0·29	−0·40	*	*
	Manchester	64	48	61·8	49·6	55·7	− 5·8	7	0·59	−0·16	*	*
	Liverpool Obsy (Bidston)	67	50	62·9	53·1	58·0	− 3·8	5	0·30	−0·62	*	*
	Llandudno 𝔐	66	50	62·9	52·8	57·9	− 3·4	3	0·22	−0·28	30	27
	Holyhead	64	51	62·3	53·0	57·7	− 3·4	4	0·20	−0·20	*	*
8. ENGLAND, S.W.	Pembroke	62	49	60·3	54·3	57·3	− 4·8	4	0·21	−0·34	39	35
	Arlington (N. Devon)	67	48	62·7	51·3	57·0	− 6·0	6	0·65	?	*	*
	Falmouth	68	52	65·7	55·2	60·5	− 2·5	6	0·82	+0·22	32	29
	Plymouth	75	51	69·2	55·4	62·3	− 0·7	4	0·22	−0·44	25	23
	Prawle Point	79	50	65·9	54·1	60·0	− 2·5	3	0·93	?	*	*
9. IRELAND, N.	Londonderry	67	45	62·9	48·8	55·9	− 4·1	6	1·67	+0·87	*	*
	Mullaghmore	65	50	60·9	52·9	56·9	− 3·4	7	0·72	?	*	*
	Markree Castle	68	41	62·3	48·1	55·2	− 5·1	7	0·59	−0·06	25	22
	Brookeborough	67	40	62·0	48·6	55·3	− 4·9	5	0·57	?	*	*
	Armagh	65	45	62·6	49·4	56·0	− 4·5	7	1·18	+0·48	31	28
	Donaghadee	68	44	62·7	50·9	56·8	− 3·0	5	0·94	?	*	*
10. IRELAND, S.	Dublin	67	46	65·0	52·6	58·8	− 2·2	4	0·33	−0·21	44	40
	Parsonstown	68	41	63·9	49·4	56·7	− 4·2	4	0·37	−0·33	45	41
	Waterford										*	*
	Roche's Point	65	48	62·7	50·9	56·8	− 4·3	3	0·35	−0·34	*	*
	Valencia	63	48	62·3	52·6	57·5	− 3·5	6	0·42	−0·48	31	28
	Foynes	68	51	59·9	52·2	56·1	− 5·0	5	0·56	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 30.] WEEK ENDING MONDAY, AUGUST 1, 1881. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	70	43	62	49	55	3 below.	4	4	2 less.	38	34
	2. ENGLAND, N.E.	71	43	64	50	57	3 below.	4	6	2 more.	33	30
	3. ENGLAND, E.	72	39	67	50	59	5 below.	4	7	2 more.	34	31
	4. MID. COUNTIES	75	36	67	50	58	5 below.	5	7	1 more.	39	36
	5. ENGLAND, S.	73	36	67	53	60	4 below.	6	13	9 more.	38	36
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	66	41	61	50	55	4 below.	4	10	2 more.	31	28
	7. ENGLAND, N.W.	67	43	62	52	57	4 below.	4	15	8 more.	32	29
	8. ENGLAND, S.W.	68	40	64	53	58	5 below.	5	15	9 more.	44	41
	9. IRELAND, N.	65	40	62	49	55	5 below.	4	4	4 less.	43	39
	10. IRELAND, S.	69	41	64	49	57	4 below.	4	8	2 more.	46	42

General Remarks.

Weather has been unsettled and cloudy with more or less rain in all parts of the Kingdom; over western and southern England the rain was very heavy. Thunderstorms occurred in many places on the 26th, and again at some stations on the 31st.

Temperature has been from 3° to 5° below the mean in all districts. The highest reading recorded during the period was only 75°, which was registered at Nottingham on the 1st August. The minima were low everywhere, and at Cirencester and Marlborough, during the early morning of the 28th, the sheltered thermometer went down to 36°; at other stations in our central, eastern, and southern districts, temperature fell to between 39° and 43°. On the grass readings were of course much lower.

Rainfall was less than the mean in "Scotland, E." and "Ireland, N.," but more elsewhere. In "England, S.," "S.W.," and "N.W." the excess was large.

Bright sunshine was rather scarce, the percentages ranging from 41 in "England, S.W." and 42 in "Ireland, S.," to 28 in "Scotland, W."

Depressions observed.—The depressions during this period—travelling in an easterly direction—have been very numerous, but generally small and shallow. On the 30th, however, a rather serious disturbance was advancing towards Ireland from the Atlantic, and, moving north-eastwards during the following day, caused strong south-westerly and southerly winds in England, variable airs in Scotland, and fresh northerly breezes in Ireland. At the close of the period it had reached the W. of Norway, and the wind had veered to W. or N.W. at all except our south-western stations, blowing strongly in the N. of Scotland.

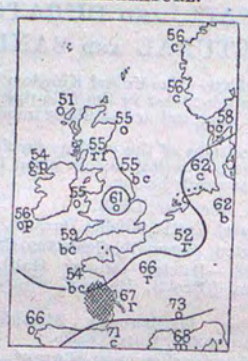
Q 7537. 100.—8/81. Wt. 230. E. & S.

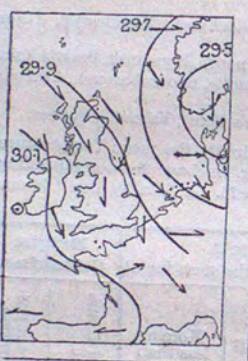
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending August 1, 1881.

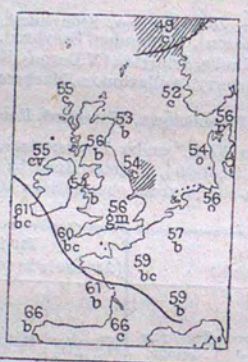
Synoptic Weather Charts.—8 a.m.

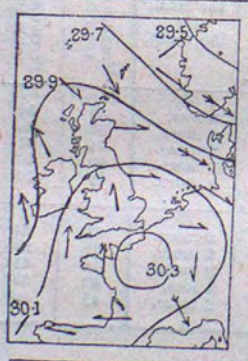
BAROMETER AND WIND.

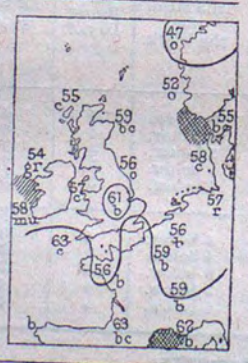
CLOUD, RAIN, SEA, AND TEMPERATURE.

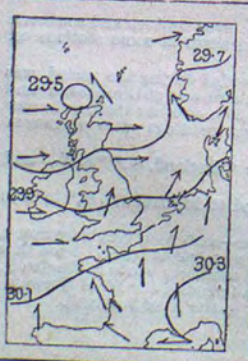


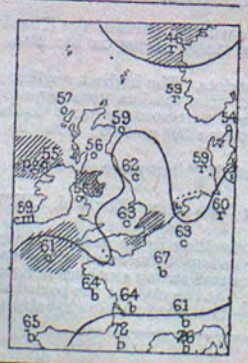












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, July 26.

Weather cloudy or dull in nearly all parts of Western Europe with rain in the S. of Scotland and W. of Ireland. Clearing in the W. and N. later, but showers occurring everywhere.

Temperature fallen except in the W.; readings ranging from 61° at Nottingham to 51° in N. Scotland. Maxima not exceeding 70° anywhere, and not reaching 60° in the N.

Wind northerly and north-westerly in most places, but westerly in N. Wales and in S. France, and south-westerly to southerly over the countries to the eastward of the North Sea; blowing strongly in the N.W. and S.W. Fresh northerly and north-westerly winds blowing all day.

Sea rough in the Bay of Biscay.

Barometer rising in the N. and W., falling rather briskly elsewhere. Large depression lying over Norway, with rather deep subsidiary over N. France. Pressure increasing all day, depressions moving away.

Wednesday, July 27.

Weather fine over Scotland, our western coasts, and France, but dull elsewhere, with rain at Nottingham. Fair on the whole during day, but some showers occurring in East.

Temperature fallen generally; readings ranging from 61° at Valencia to 50° at Barrow-in-Furness. Maxima between 58° and 68°.

Wind northerly to north-westerly on nearly all coasts; blowing moderately to freshly at our ports, but reaching a gale to the eastward of the North Sea. Backing to S.W. at Valencia later, but little other change.

Sea rough at Holyhead and Spurn Head.

Barometer rising briskly except over S. Scandinavia; well marked depression shown over the Baltic. Mercury beginning to fall at Valencia later, and at same time depression over Sweden moving slowly northward.

Thursday, July 28.

Weather fine over France, England, and the E. of Scotland, dull with rain over Ireland and Scandinavia. Unsettled rainy weather spreading gradually, but fine all day in S.E.

Temperature risen somewhat except in W. Ireland; ranging from 63° at Scilly to 52° at Nairn. Maxima a little above 70° over central England, between 60° and 70° elsewhere.

Wind southerly, moderate to strong in force on our western coasts, north-westerly to westerly in our other districts, and easterly over France. Strong south-westerly winds blowing all day.

Sea rough at Valencia, high in the Skager Rack.

Barometer rising over France, England, and the eastern shores of the North Sea, falling elsewhere. Depression advancing to the W. of Ireland. Mercury falling everywhere later, and well-marked disturbance appearing.

Friday, July 29.

Weather fine over southern and central France as well as in Sweden, dull elsewhere, with mist or rain in several places. Moderately fine during day, though with a good deal of cloud.

Temperature risen slightly generally, ranging from 68° at Nottingham to 55° at Wick and Mullaghmore. Rising during day, and maxima between 60° and 70°.

Wind easterly and southerly in France, but westerly in nearly all other places. Blowing freshly or strongly on many parts of our coasts. Backing to S.W. in W. Ireland later, westerly winds holding elsewhere.

Sea rough at some western ports.

Barometer rising somewhat on our S.W. coasts and also in Scandinavia, falling elsewhere. Swedish depression travelling northward towards the N. of Norway, and large shallow area of low pressure lying over N. Scotland. Mercury rising a little during day, but fall commencing at Valencia at 6 P.M.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, July 30.

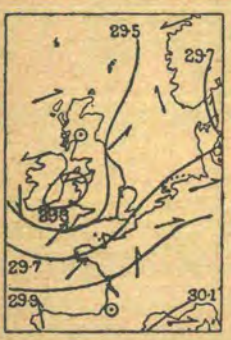
Weather fine at some French stations and on the S.E. coast of England, dull elsewhere, with showers in some places. Dull and showery all day in most parts of the country.

Temperature fallen somewhat; and readings ranging from 65° at Yarmouth to 53° at Mullaghmore. Not much change during day; maxima about 70° over central England and between 55° and 65° elsewhere.

Wind south-westerly on nearly all coasts, blowing strongly in the Hebrides and freshly at some western stations. Moderate to strong south-westerly winds blowing all day.

Sea rough round Scilly and the Hebrides.

Barometer falling in nearly all places; readings highest in S.E. France and lowest to the northward of Scotland. Pressure giving way slowly all day.



Sunday, July 31.

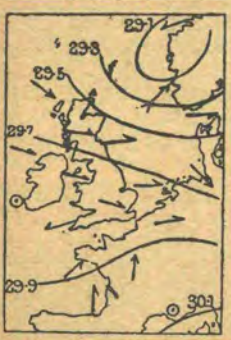
Weather very unsettled; fair in the N.E. of Scotland, but dull and rainy in nearly all other parts of the country. Clearing in the N.W. later, but very unsettled and showery elsewhere.

Temperature risen on the Continent and our S. coast, fallen elsewhere; readings ranging from 63° at Scilly to 51° at Donaghadee. Maxima again about 70° at inland stations and between 55° and 65° generally.

Wind south-westerly over France and the Channel, southerly in the E. of England, easterly on our N.W. coasts, and northerly in S. Ireland, squally and strong generally. Shifting to N.W. in the N. later, and to W. in the S.

Sea rough in the Channel.

Barometer falling quickly, and deep well marked depression shown over Irish Sea. Disturbance passing N.E. and recovery commencing in N.W. in evening.



Monday, August 1.

Weather very unsettled over Scandinavia, but improving and fair and bright over these Islands. Fair all day over greater part of country, but sharp shower occurring in south.

Temperature fallen generally; readings ranging from 64° at Jersey to 51° at Stornoway. Rising somewhat during day, and maxima of 75° registered at Nottingham, and 73° in London.

Wind north-westerly on nearly all coasts, but easterly over the Channel and S.W. of England, and south-westerly in France. Blowing a gale at Wick, but light or moderate generally. Easterly in S. all day; north-westerly elsewhere.

Sea rough at a few western stations.

Barometer falling over Scandinavia, rising elsewhere. Large depression near Skudesnaes and small subsidiary near Scilly. Small disturbance moving eastward up the Channel. Mercury rising everywhere.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head											
	Stornoway	61	42	58·1	47·0	52·6	−3·4	6	0·31	−0·49	52	46
	Wick	63	42	60·7	46·0	53·4	−2·6	6	0·25	−0·19	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	68	50	64·4	55·3	59·9	−3·1	5	1·07	+0·56	*	*
	Jersey (Noirmont)	71	51	65·4	56·4	60·9	−2·1	5	0·55	+0·13	46	44

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	66	44	62·1	49·3	55·7	− 2·3	4	0·14	−0·37	*	*
	Aberdeen	70	43	62·3	48·0	55·2	− 2·9	4	0·49	−0·20	38	34
	Leith	62	49	60·1	49·9	55·0	− 3·7	4	0·50	−0·10	*	*
2. ENGLAND, N.E.	Alnwick Castle	64	43	61·6	49·1	55·4	− 4·0	3	0·62	?	*	*
	Shields	65	47	60·6	49·7	55·2	− 4·3	3	0·84	+0·28	*	*
	Durham	68	47	64·9	49·1	57·0	− 3·5	4	0·72	+0·15	33	30
	York	70	47	66·3	50·3	58·3	− 2·7	4	0·75	+0·25	*	*
	Spurn Head	71	50	64·9	52·9	58·9	− 2·1	5	0·28	?	*	*
	Brigg‡	71	44	67·3	49·6	58·5	− 3·1	3	0·34	?	33	30
3. ENGLAND, E.	Hillington ⊕	72	39	67·5	48·3	57·9	− 4·2	5	0·79	+0·28	31	28
	Yarmouth	70	45	66·3	51·3	58·8	− 4·1	3	0·51	+0·01	*	*
	Geldeston	71	43	67·6	49·4	58·5	− 4·4	4	0·71	+0·23	36	33
	Cambridge	72	42	68·3	50·6	59·5	− 4·0	4	0·72	+0·22	*	*
	Rothamsted	71	40	67·4	50·6	59·0	− 5·8	6	0·98	+0·38	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	45	66·7	47·5	57·1	− 4·0	4	0·56	−0·03	*	*
	Nottingham	75	41	69·3	49·1	59·2	− 3·6	5	0·72	+0·11	*	*
	Loughborough	73	43	66·9	51·1	59·0	− 3·5	5	0·32	−0·15	*	*
	Leicester	72	43	66·6	51·0	58·8	− 4·5	4	0·37	−0·23	32	29
	Birmingham (Oscott)										*	*
	Cheadle ⊕	69	44	63·5	48·2	55·9	− 5·8	4	1·26	?	*	*
	Churchstoke ⊕	70	43	65·2	48·7	57·0	− 5·0	4	0·34	?	40	37
	Hereford ⊕	73	39	68·7	48·5	58·6	− 4·4	4	0·36	−0·15	*	*
	Cirencester	70	36	66·6	49·2	57·9	− 5·6	7	1·46	+0·81	42	39
	Oxford	72	44	67·6	52·6	60·1	− 3·9	4	1·15	+0·61	40	37
5. ENGLAND, S.	London†	73	44	69·7	52·6	61·2	− 2·9	6	0·99	+0·49	30	28
	Marlborough ⊕	70	36	67·9	49·4	58·7	− 5·8	6	1·50	+0·94	41	38
	Strathfield Turgiss ⊕	73	37	?70·2	?50·6	?60·4	− 3·6	?	?	?	*	*
	Dover	67	50	64·0	55·1	59·6	− 3·4	6	0·98	+0·52	*	*
	Hastings (St. Leonard's)	68	51	65·0	54·7	59·9	− 3·1	6	1·90	+1·50	*	*
	Southampton	73	42	69·2	53·3	61·3	− 1·8	6	1·49	?	44	41
	Hurst Castle	68	44	65·9	52·9	59·4	− 3·9	5	0·98	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	61	44	59·5	49·1	54·3	− 3·6	6	1·31	?	*	*
	Glasgow	61	42	59·7	48·9	54·3	− 4·5	5	1·10	+0·20	24	21
	Ardrossan	63	46	60·7	50·4	55·6	− 2·9	5	0·82	+0·09	*	*
	Silloth (Cumberland)	66	48	63·7	51·1	57·4	− 2·5	4	0·77	+0·14	30	27
	Douglas (Isle of Man)	63	41	60·7	49·0	54·9	− 5·1	2	0·93	+0·28	39	35
7. ENGLAND, N.W.	Barrow-in-Furness	62	48	61·3	52·4	56·9	− 4·1	4	1·69	?	*	*
	Stonyhurst	65	43	62·3	49·5	55·9	− 6·0	4	2·45	+1·45	32	29
	Blackpool ⊕	64	47	61·8	52·8	57·3	− 3·5	4	1·73	+1·13	*	*
	Manchester	65	44	62·3	49·3	55·8	− 5·7	4	1·65	+0·90	*	*
	Liverpool Obsy (Bidston)	67	50	63·3	52·4	57·9	− 3·8	4	1·30	+0·48	*	*
	Llandudno ⊕	64	50	62·1	53·4	57·8	− 3·2	4	0·83	+0·37	31	28
	Holyhead	63	51	60·4	53·0	56·7	− 4·4	5	0·63	+0·21	*	*
8. ENGLAND, S.W.	Pembroke	63	51	61·0	54·0	57·5	− 4·5	3	0·66	+0·09	50	46
	Arlington (N. Devon)	64	40	62·6	49·6	56·1	− 7·2	5	2·04	?	*	*
	Falmouth	67	51	63·6	55·3	59·5	− 3·5	4	2·13	+1·51	46	43
	Plymouth	68	45	67·1	53·2	60·2	− 2·7	6	1·80	+1·15	37	35
	Prawle Point	68	47	63·6	52·3	58·0	− 4·6	6	0·98	?	*	*
9. IRELAND, N.	Londonderry	64	46	61·6	48·3	55·0	− 4·5	4	0·30	−0·50	*	*
	Mullaghmore	64	51	61·7	51·9	56·8	− 3·2	4	0·56	?	*	*
	Markree Castle	65	40	62·7	45·7	54·2	− 5·8	4	0·27	−0·45	52	47
	Brookeborough	65	42	62·4	46·7	54·6	− 5·5	3	0·41	?	*	*
	Armagh	63	44	61·5	49·0	55·3	− 4·9	5	0·44	−0·26	34	31
	Donaghadee	64	45	60·7	50·3	55·5	− 3·7	4	0·66	?	*	*
10. IRELAND, S.	Dublin	67	45	64·0	50·8	57·4	− 3·5	5	0·94	+0·39	41	38
	Parsonstown	69	41	65·0	47·6	56·3	− 4·3	5	0·79	+0·07	48	44
	Waterford										*	*
	Roche's Point	66	48	64·1	50·7	57·4	− 3·6	2	1·10	+0·40	*	*
	Valencia	65	47	63·7	52·9	58·3	− 2·7	4	0·89	−0·01	49	45
	Foynes	69	44	64·4	44·9	54·7	− 6·3	4	0·32	?	*	*

Stations marked ⊕ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 31.] WEEK ENDING MONDAY, AUGUST 8, 1881. [*Price 2d.*

[*Annual subscription, post paid,* 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	71	39	67	51	59	1 above.	4	2	5 less.	42	38
	2. ENGLAND, N.E.	83	40	70	53	62	1 above.	2	5	0 (average).	43	40
	3. ENGLAND, E.	85	46	74	53	63	0 (average).	2	7	2 more.	48	45
	4. MID. COUNTIES	86	38	72	52	62	1 above.	2	8	3 more.	40	37
	5. ENGLAND, S.	84	38	71	53	62	2 below.	1	4	1 less.	43	41
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	70	39	64	53	58	1 below.	6	6	2 less.	31	29
	7. ENGLAND, N.W.	78	41	66	54	60	1 below.	4	7	0 (average).	34	32
	8. ENGLAND, S.W.	72	45	65	55	60	2 below.	2	6	0 (average).	41	39
	9. IRELAND, N.	76	41	66	53	60	1 above.	6	7	1 less.	29	27
	10. IRELAND, S.	76	48	66	56	60	0 (average).	6	8	1 more.	29	27

General Remarks.

Weather has been moderately fine except in Ireland and the W. of Scotland. Very frequent showers occurred at our western and north-western stations and heavy rain set in at our central, eastern, and southern stations at the close of the period, in some places accompanied by thunder.

Temperature has been equal to the mean in "England, E." and "Ireland, S.," a little below it in "Scotland, W." "England, S.," "S.W.," and "N.W.," but slightly above it elsewhere. The maxima were registered on the 5th, when the thermometer rose to 86° at Bawtry and to between 80° and 85° at nearly all our other inland stations. The minima for the week occurred generally on the 2nd, and were as low as 38° at Churchstoke and Strathfield Turgiss, and 39° or 40° at some other stations.

Rainfall was slightly more than the mean in "England, E.," the Midland Counties, and "Ireland, S.," but rather less in most other districts.

Bright sunshine was rather more prevalent than during last week, but the percentages were nowhere high, ranging from 45 in "England, E." to 27 in "Ireland."

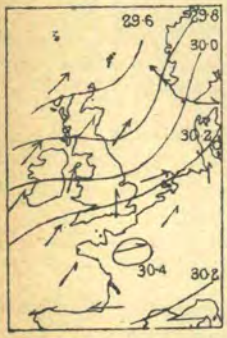
Depressions observed.—The readings of the barometer have been highest over France, forming an anticyclone during the greater part of the week, and lowest to the westward or northward of our Islands. Several depressions, generally small, have travelled in a north-easterly direction over or outside our western and northern coasts, causing the wind to vary between S. and W., and to blow freshly at all our western stations, and occasionally to reach the force of a gale on our extreme north-western and western coasts. At the close of the period the barometer was falling quickly in the S.

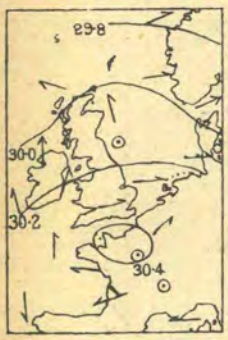
Q 7625. 100.—8/81. Wt. 330. E. & S.

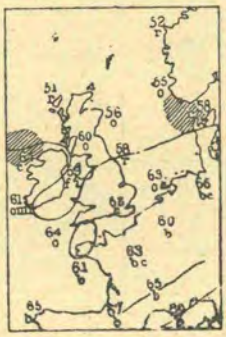
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 8, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 2.

Weather fine and bright in nearly all parts of these Islands and France, but wet in Norway. Dull rainy weather extending over our western stations later, but continuing fine in the E.

Temperature fallen over France and the E. of England, risen elsewhere; readings varying from 65° at Dover to 53° at Leith. Rising briskly in E. later, and maxima 77° at Nottingham and 71° in London.

Wind southerly in Ireland, westerly and northerly over Great Britain and France; light or moderate except at Valencia. Strong westerly winds in Scandinavia; southerly wind in west extending and rising to force of a gale later.

Sea rough at Valencia and on the coast of Norway.

Barometer rising everywhere, quickly in the E., anticyclone shown over us. Fresh and brisk decrease commencing in W. later and extending quickly eastwards.

Wednesday, August 3.

Weather fine at some north-eastern and eastern stations and over France, cloudy or dull elsewhere with rain and mist in the W. Dull and misty all day except at some E. coast stations. Slight rain in N.

Temperature risen somewhat, readings ranging from 63° at at Scilly to 55° at Stornoway. Maxima between 70° and 72° over the eastern and central districts.

Wind westerly and south-westerly all over the kingdom, but drawing into S. and S.E. to the eastward of the North Sea. Blowing rather freshly. Strong to moderate westerly winds holding all day.

Sea rough in the N.W. and N.E.

Barometer falling in the N., rising elsewhere; large anticyclone lying over France and the Channel with depression to the northward of Scotland. Mercury rising everywhere during day.

Thursday, August 4.

Weather fine over France and at some English stations, cloudy or dull in nearly all other places, with mist or drizzling rain in the W. and N. Fine all day in the S. & E., dull and showery elsewhere.

Temperature risen south, fallen north; rising fast over England later, and maxima between 75° and 85° recorded.

Wind backed to S. in the W. and N., but blowing from S.W. to W. on our other coasts and over the North Sea, and from E. over France. Strong south south-westerly and southerly winds in the W. all day.

Sea rough at Mullaghmore and the Scaw.

Barometer rising except in Sweden, anticyclone travelling northward and shown over Channel and S. of England. Pressure giving way everywhere during day.

Friday, August 5.

Weather very fine over France and the central and eastern parts of England and Scotland, dull in the W. with some rain. Cloudy and showery all day in the W. and N., fine elsewhere.

Temperature risen in the E. and N., fallen in the W.; ranging from 70° at Nottingham to 57° at Mullaghmore. Again rising briskly in the eastern and central districts, and maxima exceeding 80°.

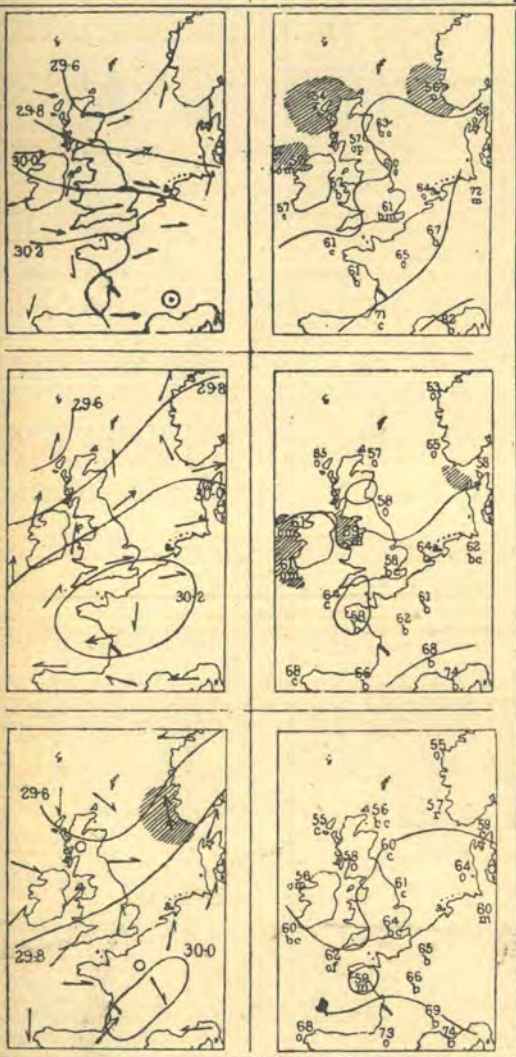
Wind easterly over France, southerly and south-westerly all over these Islands, varying from a light breeze in the S.E. to a fresh gale in the Hebrides. South-westerly strong winds and gales holding all day.

Sea rough at Valencia and Stornoway.

Barometer risen in Sweden, fallen elsewhere; pressure highest over N. Germany, lowest off our N.W. coasts, decreasing all day and large disturbance shown in N.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 6.

Weather fine over France and the southern and central parts of England, cloudy or dull elsewhere with showers in places. Cloudy all day except in the S. and S.E. and rain falling in the W.

Temperature decreased generally; readings ranging from 67° at Nottingham to 54° at Stornoway. Maxima during day low in most districts, between 70° and 76° in the S.E.

Wind north-westerly to westerly all over the Kingdom blowing strongly in the N.W. and W. Southerly winds reported in Denmark and Norway. Backing to S. and S.W. in the W. later, but remaining westerly elsewhere.

Sea rough in the N.W.

Barometer rising at our own and the French stations, falling over Scandinavia. Anticyclone lying over the Bay of Biscay, with depression to the northward of Scotland. Rising slowly during day, but beginning to fall in the W. at 6 o'clock.

Sunday, August 7.

Weather fine over the S.E. of England, France, N. Germany, and Denmark, cloudy or dull elsewhere, with mist in the W. Fine all day in the S.E., dull and rainy in the W. and N.

Temperature fallen in the E. and over the Continent, risen in the W.; readings ranging from 64° at Scilly to 55° at Stornoway. Maxima again low, varying between 64° and 74°.

Wind easterly over France, south-westerly to southerly over the whole of these Islands and the North Sea. Light in the S.E., strong in the W. and N. South-westerly strong winds and gales in Ireland later.

Sea rough at Valencia and Barrow-in-Furness.

Barometer rising over France, the S.E. of England, and the countries to the eastward of the North Sea, falling elsewhere. Large depression advancing on our W. coasts during day. Mercury falling everywhere.

Monday, August 8.

Weather fine over the E. of France and S.E. of England, cloudy or dull elsewhere, with rain or fog in the S.W. Cloudy all day except on our extreme S.E. coasts, and heavy rain subsequently falling.

Temperature risen in the E. and over France, fallen elsewhere; readings ranging from 66° at Dover, to 55° at Stornoway. Not rising much during day, and maxima again low.

Wind south-westerly on most of our coasts, and drawing into S. on the eastern shores of the North Sea, but north-westerly breezes reported from the N.E. of Scotland. Veering to W. later, and blowing a gale in the Channel.

Sea moderate or slight round our coasts.

Barometer falling generally, small anticyclone shown over S. France, with large area of low pressure to the northward of Scotland. Large depression passing right across us later, and mercury falling briskly.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head											
	Stornoway	62	44	59·9	49·4	54·7	−1·0	6	2·19	+1·39	21	19
	Wick	66	49	62·6	51·3	57·0	+1·0	6	0·53	+0·03	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	69	52	66·7	58·3	62·5	−0·5	2	0·47	−0·03	*	*
	Jersey (Noirmont)	78	55	69·7	50·6	63·2	+0·2	2	0·18	−0·32	80	78

The above observations made in 'Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	71	45	66·0	52·1	59·1	+ 1·1	4	0·16	−0·49	*	*
	Aberdeen	70	39	67·0	51·4	59·2	+ 1·2	4	0·09	−0·61	42	38
	Leith	69	40	66·7	49·7	58·2	− 0·5	3	0·22	−0·38	*	*
2. ENGLAND, N.E.	Alnwick Castle	72	52	67·6	54·9	61·3	+ 2·4	1	0·03	?	*	*
	Shields	78	45	68·7	52·7	60·7	+ 1·7	2	0·30	−0·25	*	*
	Durham	79	42	71·3	53·0	62·2	+ 1·7	1	0·16	−0·42	54	49
	York	82	43	70·9	52·1	61·5	+ 0·9	4	0·68	+0·17	38	35
	Spurn Head	80	51	70·1	55·1	62·6	+ 1·7	4	0·88	?	*	*
	Brigg‡ 𝔐	83	40	71·9	50·7	61·3	− 0·2	2	0·93	+0·43	37	35
3. ENGLAND, E.	Hillington 𝔐	84	46	73·7	51·7	62·7	+ 0·8	3	0·75	? +0·24	40	37
	Yarmouth	73	52	70·9	55·7	63·3	+ 0·9	1	0·45	0·00	*	*
	Geldeston	81	50	74·7	54·1	64·4	+ 1·9	2	0·55	+0·14	56	53
	Cambridge	85	46	75·4	51·7	63·6	+ 0·2	2	0·72	+0·26	49	46
	Rothamsted	82	46	72·7	51·3	62·0	− 2·2	1	0·93	+0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	86	43	73·6	50·3	62·0	+ 1·0	2	1·34	+0·79	*	*
	Nottingham	85	42	76·4	51·7	64·1	+ 1·7	3	0·63	+0·01	*	*
	Loughborough	84	44	72·9	52·6	62·8	+ 0·8	2	1·09	+0·64	*	*
	Leicester	82	47	72·0	53·5	62·8	− 0·2	2	1·41	+0·81	43	40
	Birmingham (Oscott)										*	*
	Cheadle 𝔐	78	44	68·1	51·3	59·7	− 2·1	1	0·83	?	*	*
	Churchstoke 𝔐	75	38	68·9	50·7	59·8	− 1·7	3	0·25	?	30	28
	Hereford 𝔐	81	48	74·9	52·2	63·6	+ 1·1	1	0·55	+0·05	*	*
	Cirencester	79	47	69·2	50·4	59·8	− 3·6	2	0·52	−0·13	38	36
	Oxford	79	52	71·3	54·0	62·7	− 1·0	2	0·52	+0·01	47	44
5. ENGLAND, S.	London†	84	49	75·1	51·1	63·1	− 0·9	2	0·40	−0·06	47	45
	Marlborough 𝔐	80	49	70·3	51·8	61·1	− 3·1	1	0·72	+0·16	43	41
	Strathfield Turgiss 𝔐	82	38	?73·2	?44·0	?58·6	?− 5·4	?	?	?	*	*
	Dover	74	55	68·7	58·0	63·4	+ 0·4	1	0·26	−0·19	*	*
	Hastings (St. Leonard's)	73	54	67·7	56·3	62·0	− 1·0	1	0·20	−0·20	*	*
	Southampton	78	51	71·6	54·1	62·9	− 0·1	1	0·50	?	40	38
	Hurst Castle	72	52	68·3	55·9	62·1	− 1·4	1	0·25	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)§	70	48	62·5	53·4	58·0	+ 0·5	7	3·66	?	*	*
	Glasgow	70	41	64·9	51·1	58·0	− 0·8	6	0·66	−0·24	30	28
	Ardrossan	64	41	62·6	52·6	57·6	− 0·9	6	0·71	−0·09	*	*
	Silloth (Cumberland)	69	39	65·9	53·4	59·7	+ 0·1	6	0·70	+0·05	35	32
	Douglas (Isle of Man)	66	43	62·2	53·3	57·8	− 1·8	4	0·32	−0·38	28	26
7. ENGLAND, N.W.	Barrow-in-Furness	68	48	64·4	55·4	59·9	− 0·6	5	0·74	?	*	*
	Stonyhurst	73	43	66·0	53·6	59·8	− 1·7	5	0·74	−0·27	31	29
	Blackpool 𝔐	71	41	65·9	53·5	59·7	− 0·8	5	0·50	−0·05	*	*
	Manchester	78	41	67·6	51·0	59·3	− 1·8	5	0·53	−0·22	*	*
	Liverpool Obsy (Bidston)	77	50	68·4	55·6	62·0	+ 0·8	4	1·21	+0·49	*	*
	Llandudno 𝔐	72	46	67·4	55·6	61·5	+ 0·5	3	0·56	+0·11	36	34
	Holyhead	68	54	63·7	55·7	59·7	− 1·4	4	0·41	−0·07	*	*
8. ENGLAND, S.W.	Pembroke	63	50	62·0	56·1	59·1	− 2·4	4	0·37	−0·23	32	30
	Arlington (N. Devon)	72	45	65·7	52·9	59·3	− 3·2	3	1·50	+0·70	*	*
	Falmouth	70	53	66·5	56·8	61·7	− 1·3	2	0·38	−0·27	49	47
	Plymouth	72	50	68·2	55·1	61·7	− 0·8	1	0·37	−0·27	43	41
	Prawle Point	69	49	64·3	54·4	59·4	− 3·1	1	0·23	?	*	*
9. IRELAND, N.	Londonderry	76	42	66·8	52·6	59·7	+ 0·6	7	0·81	+0·01	*	*
	Mullaghmore	72	44	64·7	53·6	59·2	− 0·6	6	1·10	?	*	*
	Markree Castle	73	42	66·7	52·4	59·6	− 0·2	6	0·69	−0·11	25	23
	Brookeborough	72	43	68·3	52·9	60·6	+ 0·6	5	0·90	?	*	*
	Armagh	73	45	66·7	54·2	60·5	+ 0·5	7	0·57	−0·12	32	30
	Donaghadee	72	41	65·4	53·4	59·4	− 0·1	4	0·22	?	*	*
10. IRELAND, S.	Dublin	76	55	69·0	60·8	64·8	+ 4·4	4	0·52	−0·03	40	37
	Parsonstown	72	48	66·9	54·4	60·7	+ 0·4	6	0·62	−0·14	28	26
	Waterford										*	*
	Roche's Point	66	50	64·0	54·4	59·2	− 1·8	6	0·99	+0·27	*	*
	Valencia	65	52	63·6	55·6	59·6	− 1·4	7	1·31	+0·40	18	17
	Foynes	73	48	64·6	50·4	57·5	− 3·5	5	0·59	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.
§ The rainfall at Laudale is so exceptional that it has not been used in calculating the average for "Scotland W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 32.] WEEK ENDING MONDAY, AUGUST 15, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	42	61	49	55	3 below.	4	4	2 less.	31	29
	2. ENGLAND, N.E.	71	42	62	49	56	4 below.	3	2	4 less.	29	28
	3. ENGLAND, E.	67	43	62	50	56	7 below.	6	10	6 more.	18	18
	4. MID. COUNTIES	70	40	62	48	55	7 below.	4	6	1 more.	13	13
	5. ENGLAND, S.	71	38	64	51	58	6 below.	4	9	4 more.	25	25
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	67	44	61	50	55	3 below.	4	5	5 less.	39	37
	7. ENGLAND, N.W.	63	46	59	52	55	5 below.	5	5	1 less.	15	15
	8. ENGLAND, S.W.	66	46	62	53	57	5 below.	4	8	1 less.	35	34
	9. IRELAND, N.	64	37	60	49	55	5 below.	5	4	4 less.	33	32
	10. IRELAND, S.	66	41	62	50	56	4 below.	5	12	2 more.	27	26

General Remarks.

Weather has been unsettled and dull in all parts of the Kingdom. Showers have been very general, and heavy rain was experienced in London on the 12th and an exceedingly heavy fall at Arlington (North Devon) on the 13th.

Temperature has been below the mean in all districts, 3° in Scotland, and as much as 4° to 7° over Ireland and England. The maxima were very low for the season, the highest reading being only 71°, which was registered in London on the 9th, and at Durham on the 14th. The lowest of the minimum readings occurred at Strathfield Turgiss on the 11th and at Brookeborough on the 12th, when the thermometer fell to 38° and 37° respectively. In most districts the minima varied between 40° and 45°.

Rainfall was more than the mean over the southern, central, and eastern parts of England and the S. of Ireland, but rather less elsewhere.

Bright sunshine shows a decided decrease nearly everywhere; the percentages were very low, ranging from 13 in the "Midland Counties," to 37 in "Scotland, W."

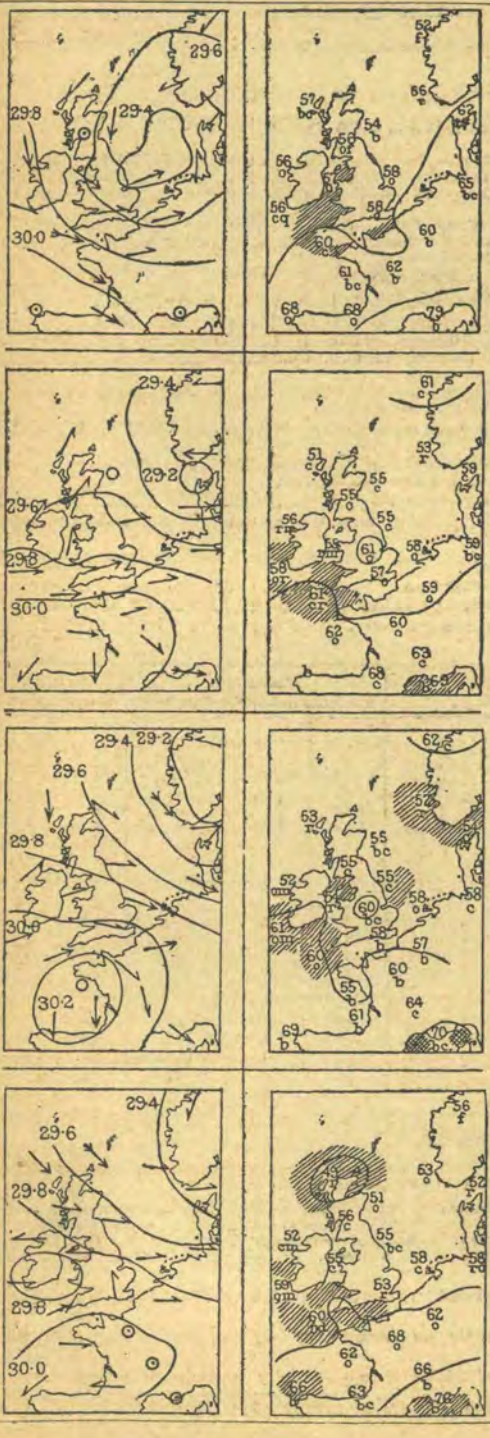
Depressions observed.—The depressions within our area during this period have been very numerous, but generally small. They have moved, for the most part, from W. to E. and occasioned south-westerly to north-westerly winds of moderate strength on most days, but which increased to a strong breeze at times, and blew a moderate to fresh gale in the N.W. on the 10th, and at Wick on the 11th.

Q 7688. 100.—8/81. W^t. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 15, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 9.

Weather fine at several northern and western stations and in N. France, cloudy or dull elsewhere. Moderately fair during day, but showers occurring at times at most stations.

Temperature fallen generally; readings ranging from 60° at Scilly to 53° at Nairn and Cambridge. Temperature low all day, only reaching 70° at Nottingham and in London.

Wind northerly all over our more northern coasts, but westerly in the S. and over France, blowing freshly in most places and reaching a gale in the Channel. Fresh or strong northerly to westerly winds all day.

Sea rough in the S.W. and S.

Barometer rising over France and our N. and W. districts, falling elsewhere,—quickly in E. Large depression over North Sea, with area of high pressure over Spain. Mercury rising all day, and depression moving eastward.

Wednesday, August 10.

Weather cloudy or dull in nearly all parts of western Europe, rain falling in the S.W. and W. Moderately fine generally during latter part of day, but showers in most places in morning.

Temperature changed little and irregularly; readings ranging from 61° at Scilly, to 51° at Stornoway. Not much change during day, and maxima below 65° except at a few southern stations.

Wind between S.W. and W. all over these Islands, France, and the North Sea, but south-easterly to easterly in Scandinavia. Fresh in the W. and S.W., light or moderate elsewhere. North-westerly gale prevailing in the W. and N.W. later.

Sea rough in the S.W.

Barometer rising over France, N. Germany, and the S. and E. of England, falling elsewhere. Disturbance noticed above shown over the Skager Rack, and fresh depression appearing in N.W. North-western depression travelling quickly across later.

Thursday, August 11.

Weather fine over France and the south-eastern and eastern parts of Great Britain, but cloudy or dull generally; rain falling at some western stations. Cloudy and showery generally during day.

Temperature changed slightly, but risen in most places; ranging from 64° at Dover to 53° in N. Scotland. Low all day and maxima below 65° in nearly all places.

Wind westerly to north-westerly on our coasts, and northerly over France, westerly in the S. of Scandinavia, and easterly in the N. of that region. Fresh or strong generally; northerly to westerly winds prevailing all day and blowing strongly in the Channel.

Sea rough in the S.W. and at Spurn Head.

Barometer falling except over France and our south-eastern districts. Anticyclone over the Bay of Biscay, and large depression over Scandinavia. Pressure giving way all day.

Friday, August 12.

Weather fine at some of our north-eastern stations and in the extreme S. of France; cloudy or dull elsewhere with rain in the W. and S. Heavy continuous rain falling over the S. of England, and weather generally unsettled.

Temperature fallen except over France; ranging from 61° on our S. coast to 49° at Wick. Low all day and maxima below 65° except at York and Nottingham.

Wind north-westerly to westerly all over western Europe, blowing a gale at Wick and very strongly in the Channel. North-westerly and westerly winds holding all day, blowing strongly in the Channel.

Sea rough in S.W. and N.

Barometer rising in Scandinavia, falling elsewhere; distribution unchanged, still highest over France and lowest over Norway, but shallow depression shown in Ireland. Pressure decreasing all day and disturbance moving southward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 13.

Weather fine on our S.E. and S.W. coasts and in parts of Scandinavia, cloudy or dull elsewhere with rain at Stornoway and Paris. Fine in S.W. all day, but dull elsewhere.

Temperature fallen; readings low, ranging from 58° in the S.W. to 49° at Nairn. Little change later, and maxima varying between 54° at Stornoway and 66° at Leith.

Wind northerly and north-westerly on all our coasts and over the north of France and westerly in the S. of that country. Blowing strongly in places, but generally moderate. Northerly and north-westerly winds holding all day.

Sea rough in the N.W. and in the straits of Dover.

Barometer rising in Ireland and the S. of England, falling elsewhere; Irish depression moved southward to N.W. France. Readings highest over Spain and still lowest over Scandinavia. Recovery noticed above becoming general later.

Sunday, August 14.

Weather varying a good deal, fine at several north-eastern stations as well as in W. France and N. Norway. Fine or moderately so during day in the E. and S.E.

Temperature risen at most stations, but changes very slight; readings low and very uniform, ranging from 60° at Nottingham to 51° at Stornoway. Maxima between 55° and 65° generally.

Wind easterly in Scandinavia, northerly to north-westerly in nearly all other places; very strong in the N.E. of Scotland, generally moderate elsewhere. Backing to W. in Ireland later, little other change.

Sea rough at Wick and Barrow-in-Furness.

Barometer falling in N. Germany, rising in nearly all other places; pressure highest off our S.W. coasts and lowest over the eastern shores of the North Sea. Barometer beginning to fall in Ireland later.

Monday, August 15.

Weather very fine in the S. of France and locally clear at a few of our eastern stations, cloudy or dull elsewhere with showers in Ireland. Cloudy or dull all day with slight rain at all stations.

Temperature risen slightly most places, ranging from 58° in the S.W to 52° in the N.; readings very uniform over the whole of western Europe. Maxima between 55° and 65° generally, but 69° at Nottingham.

Wind westerly and north-westerly on nearly all coasts, but northerly in the S. of France and over Denmark. Light in force in the N., fresh in the S. Light or moderate westerly to southerly winds prevailing all day.

Sea rough at Barrow-in-Furness and Cape Gris Nez.

Barometer rising over France and the countries to the eastward of the North Sea, falling over these Islands. Falling slowly all day, and pressure becoming very uniform though still higher over France and lower over Scandinavia than elsewhere.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	57	42	55·0	46·9	51·0	−4·1	4	0·60	−0·25	19	18
	Stornoway	60	40	57·1	46·3	51·7	−4·3	3	0·42	−0·16	*	*
	Wick	66	54	63·9	55·0	59·5	−3·4	5	0·76	+0·25	44	44
CHANNEL ISLANDS	Scilly (St. Mary's)	65	55	61·4	56·0	58·7	−3·3	6	0·76	+0·28	*	*
	Jersey (Noirmont)	66	54	63·9	55·0	59·5	−3·4	5	0·76	+0·25	44	44

The above observations made in 'Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	65	45	59·0	49·0	54·0	− 3·5	5	0·40	−0·25	*	*
	Aberdeen	63	42	60·7	48·7	54·7	− 2·9	3	0·17	−0·55	31	29
	Leith	66	47	63·6	49·3	56·5	− 2·0	4	0·65	+0·07	*	*
2. ENGLAND, N.E.	Alnwick Castle	65	43	61·0	48·6	54·8	− 4·1	2	0·18	?	*	*
	Shields	63	45	60·9	48·4	54·7	− 4·3	3	0·30	−0·25	*	*
	Durham	71	45	64·7	48·2	56·5	− 4·0	3	0·16	−0·38	34	32
	York	68	44	63·6	48·9	56·3	− 4·1	2	0·06	−0·48	33	32
	Spurn Head	63	50	60·6	52·9	56·8	− 3·7	5	0·31	?	*	*
	Brigg‡ 𝔐	69	42	63·7	48·7	56·2	− 4·8	3	0·10	?	21	20
3. ENGLAND, E.	Hillington 𝔐	66	43	62·2	48·5	55·4	− 6·4	6	0·72	+0·36	17	17
	Yarmouth	63	47	61·3	50·4	55·9	− 6·0	7	0·70	+0·29	*	*
	Geldeston	66	47	61·8	50·0	55·9	− 6·3	6	1·06	+0·69	19	19
	Cambridge	67	45	63·3	50·3	56·8	− 6·1	6	1·42	+1·02	18	18
	Rothamsted	67	46	62·1	50·0	56·1	− 7·7	6	0·91	+0·41	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	40	63·6	47·7	55·7	− 4·9	4	0·19	−0·31	*	*
	Nottingham	70	43	66·6	47·7	57·2	− 4·8	5	0·41	−0·20	*	*
	Loughborough	66	46	61·5	49·8	55·7	− 6·2	5	0·50	+0·05	*	*
	Leicester	70	45	62·4	49·5	56·0	− 6·5	5	0·57	−0·03	9	9
	Birmingham (Oscott)										*	*
	Cheadle 𝔐	63	44	57·2	46·8	52·0	− 9·7	6	0·56	?	*	*
	Churchstoke 𝔐	65	42	60·6	47·8	54·2	− 6·9	2	0·69	?	9	9
	Hereford 𝔐	68	41	63·1	48·0	55·6	− 6·4	3	0·73	+0·25	*	*
	Cirencester	65	42	61·9	47·6	54·8	− 8·1	4	1·05	+0·40	17	17
	Oxford	68	46	62·4	50·4	56·4	− 5·8	5	0·81	+0·33	15	15
5. ENGLAND, S.	London†	71	48	65·1	50·9	58·0	− 5·7	3	1·39	+0·97	19	19
	Marlborough 𝔐	67	44	63·5	48·7	56·1	− 7·5	4	1·14	+0·57	23	23
	Strathfield Turgiss 𝔐	70	38	65·1	45·4	55·3	− 8·4	2	1·37	+0·98	*	*
	Dover	67	52	64·3	53·7	59·0	− 3·5	6	0·64	+0·19	*	*
	Hastings (St. Leonard's)	66	49	63·6	51·9	57·8	− 4·7	3	0·81	+0·39	*	*
	Southampton	70	47	65·8	52·2	59·0	− 4·0	4	0·59	?	33	32
	Hurst Castle	69	47	63·4	53·6	58·5	− 4·7	3	0·45	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	62	48	58·7	49·6	54·2	− 3·0	7	1·27	?	*	*
	Glasgow	63	47	60·9	49·8	55·4	− 3·1	5	0·31	−0·59	51	48
	Ardrossan	65	50	60·1	51·3	55·7	− 2·3	2	0·30	−0·55	*	*
	Silloth (Cumberland)	67	48	63·4	50·9	57·2	− 1·9	2	0·07	−0·62	32	30
	Douglas (Isle of Man)	63	44	60·1	49·1	54·6	− 4·9	4	0·43	−0·32	33	32
7. ENGLAND, N.W.	Barrow-in-Furness	63	51	59·7	52·7	56·2	− 3·8	5	0·23	?	*	*
	Stonyhurst	63	46	58·8	50·1	54·5	− 6·5	4	0·43	−0·61	23	22
	Blackpool 𝔐	61	52	58·7	52·9	55·8	− 4·4	6	0·58	+0·07	*	*
	Manchester	63	46	58·5	49·9	54·2	− 6·8	6	0·58	−0·12	*	*
	Liverpool Obsy (Bidston)	62	51	58·6	52·4	55·5	− 5·5	5	0·57	−0·03	*	*
	Llandudno 𝔐	63	52	59·0	52·3	55·7	− 4·8	4	0·64	+0·22	8	8
	Holyhead	62	51	58·7	52·1	55·4	− 5·6	6	0·46	−0·06	*	*
8. ENGLAND, S.W.	Pembroke	62	50	60·1	53·7	56·9	− 4·3	5	0·91	+0·31	32	31
	Arlington (N. Devon)§	62	47	60·4	50·1	55·3	− 6·7	7	5·66	?	*	*
	Falmouth	65	51	62·7	54·4	58·6	− 4·6	3	0·71	+0·06	45	44
	Plymouth	66	49	65·1	53·2	59·2	− 3·2	4	0·50	−0·10	28	27
	Prawle Point	65	46	62·0	51·3	56·7	− 5·3	5	0·97	?	*	*
9. IRELAND, N.	Londonderry	63	43	60·8	48·7	54·8	− 4·2	6	0·32	−0·52	*	*
	Mullaghmore	61	45	59·9	50·9	55·4	− 3·8	6	0·43	?	*	*
	Markree Castle	64	41	59·8	48·8	54·3	− 4·9	6	0·57	−0·30	37	36
	Brookeborough	61	37	59·6	48·1	53·9	− 5·9	4	0·25	?	*	*
	Armagh	64	44	60·7	49·5	55·1	− 4·4	6	0·23	−0·42	28	27
	Donaghadee	63	46	61·0	49·7	55·4	− 3·7	4	0·24	?	*	*
10. IRELAND, S.	Dublin	64	47	60·8	51·3	56·1	− 3·9	4	1·08	+0·49	23	22
	Parsonstown	63	43	62·0	48·9	55·5	− 4·3	6	1·31	+0·51	31	30
	Waterford										*	*
	Roche's Point	66	48	63·4	51·1	57·3	− 3·3	2	0·66	−0·10	*	*
	Valencia	64	46	62·4	52·4	57·4	− 3·1	6	0·98	+0·06	28	27
	Foynes	62	41	58·7	45·8	52·3	− 7·8	7	1·77	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.
§ The rainfall at Arlington is so exceptional that it has not been used in calculating the average for "England S.W."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, AUGUST 22, 1881.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	64	42	59	47	53	4 below.	5	7	0 (average).	25	24
	2. ENGLAND, N.E.	68	42	62	49	56	4 below.	5	8	3 more.	23	23
	3. ENGLAND, E.	70	46	65	50	58	4 below.	5	9	4 more.	27	27
	4. MID. COUNTIES	74	41	65	48	57	5 below.	6	14	9 more.	32	32
	5. ENGLAND, S.	71	43	65	52	59	4 below.	6	12	8 more.	40	40
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	66	39	60	48	54	5 below.	5	9	2 more.	34	34
	7. ENGLAND, N.W.	68	42	61	51	56	4 below.	5	8	2 more.	26	26
	8. ENGLAND, S.W.	68	45	62	53	57	4 below.	6	11	4 more.	38	38
	9. IRELAND, N.	66	37	61	48	55	4 below.	5	7	2 less.	33	33
	10. IRELAND, S.	69	42	61	49	55	5 below.	6	16	8 more.	31	31

General Remarks.

Weather has again been very dull and unsettled, and heavy rain has fallen at nearly all our stations. Thunder occurred in some places on the 17th or 18th, and in many parts of the country at the close of the period.

Temperature was 4° or 5° below the mean in all districts. The maxima were nowhere high, the thermometer only slightly exceeding 70° in our south-eastern, central, and southern districts, and varying from 64° to 69° in most other parts of the Kingdom. Over the central and northern parts of Ireland on the 19th, the maximum reading was only about 55°. The minima for the period were generally registered during the last two or three days, and varied from 37° in "Ireland, N." to 41° in the "Midland Counties," and to 46° in "England, E."

Rainfall was rather less than the mean in "Ireland, N." and about equal to it in "Scotland, E.," but more elsewhere; over the central and southern parts of England and Ireland the excess was very great.

Bright sunshine was very deficient in nearly all places, the percentages ranging from 40 in "England, S." to 23 in "England, N.E."

Depressions observed.—The barometer has again been exceedingly unsteady, several small depressions passing in a north-easterly direction across our Islands. The most serious disturbance appeared over St. George's Channel early on the 19th, and travelling rather quickly, reached the S. of Norway on the 20th, and finally disappeared over Sweden. It caused strong south-westerly winds over England, light easterly airs in Scotland, and fresh northerly breezes in Ireland. On the 20th the wind had shifted to the westward, but in the course of the next two days, owing to the appearance of several small depressions, it became very variable.

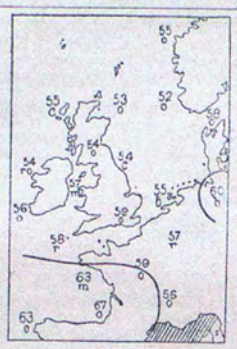
Q 7751. 460.—8/81. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 22, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, August 16.

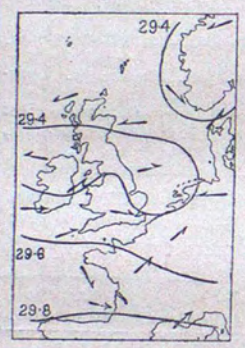
Weather cloudy or dull generally, with rain at some western and south-western stations, clearing in Ireland later, but showers occurring in most places during day.

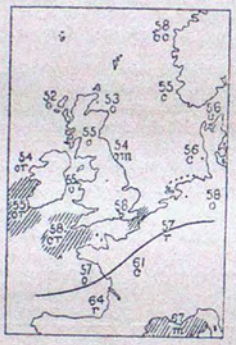
Temperature fallen slightly Ireland, risen slightly elsewhere; ranging from 59° in the S.E. to 53° at Wick. Maxima 70° in London and 74° at Nottingham, but between 56° and 66° elsewhere.

Wind westerly, and fresh or moderate over France and our western coasts, southerly and south-easterly, and very light in the E. and N. No change during day.

Sea moderate or slight.

Barometer falling rather briskly over the whole of western Europe. Decrease continuing slowly all day, and shallow depression advancing over our N.W. coasts.





Wednesday, August 17.

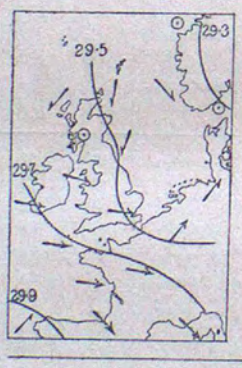
Weather fine over the south-eastern and some central parts of England, cloudy or dull elsewhere, with some showers in the W. and N. Cloudy and showery all day.

Temperature fallen slightly in nearly all places; readings low, ranging from 58° in the S. to 52° at Nairn. Maxima 72° at Nottingham, between 55° and 67° elsewhere.

Wind westerly over France and the southern portion of these Islands, easterly in the N., moderate or fresh in force. Strong westerly winds blowing all day in the Channel.

Sea rough in the S.W. and at Cape Gris Nez.

Barometer falling in all parts of western Europe. Pressure highest in the S. of France, with narrow band of low readings stretching from N. Ireland eastward to the North Sea. Depression developing considerably and passing north-eastward across us.



Thursday, August 18.

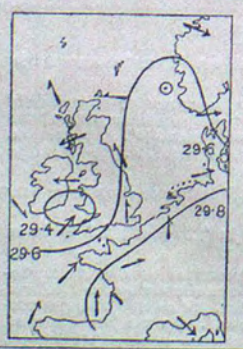
Weather fine over the E. and S.E. of Great Britain and the N.E. of France, but cloudy or dull elsewhere, rain falling in S. France. Fine all day in the E. and S.E., but dull in the W.

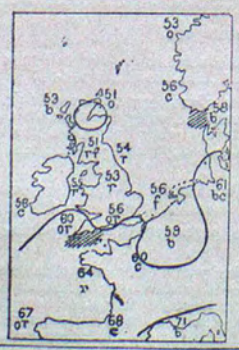
Temperature fallen E. and S.E., risen slightly W., readings ranging from 60° at Scilly to 51° at Nairn. Maxima below 65° except at Nottingham, Hurst Castle, and in London.

Wind northerly in Scotland, north-westerly and westerly over Ireland, England, and France, and south-westerly in N. Germany. Blowing strongly in the S., lightly elsewhere. Backing to S.W. in Ireland later.

Sea slight except at C. Gris Nez.

Barometer rising over the British Isles and France, falling on the eastern shores of the North Sea. Large depression lying over Scandinavia and smaller one over Denmark. Pressure increasing all day.





Friday, August 19.

Weather very unsettled, dull except over N. Germany and the S. of Scandinavia, rain falling at most of our stations. Clearing in the S. and S.E. later, rain continuing elsewhere.

Temperature risen over France and the S.E. of England, fallen elsewhere; ranging from 60° at Dover to 45° at Nairn. Maxima again between 55° and 65° generally and only slightly exceeding it at the inland stations.

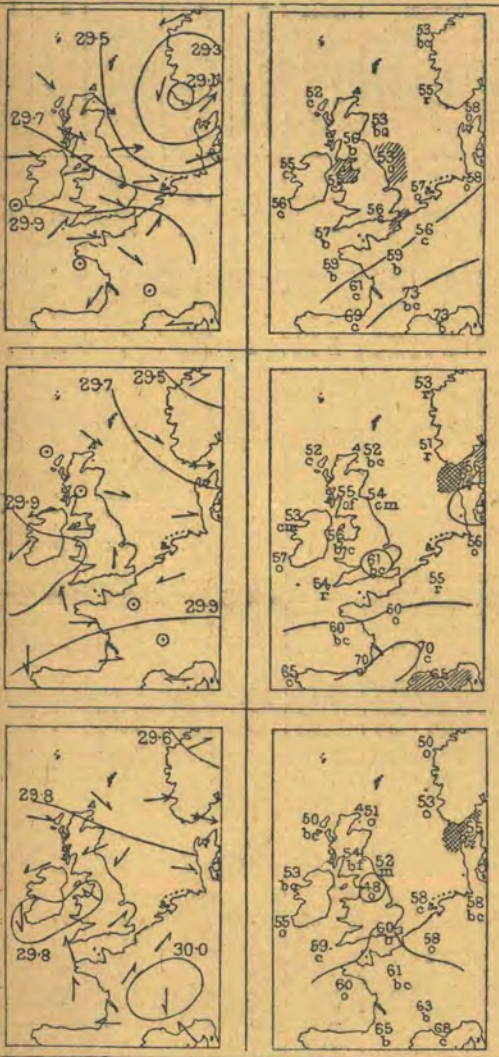
Wind northerly in Ireland, south-westerly and southerly over the Channel and our southern and eastern districts, but easterly in the north. Blowing freshly or strongly except in the north. Veering to W. in the S. later, and shifting to N. in Scotland.

Sea rough at the entrance to the Channel.

Barometer rising over the countries to the eastward of the North Sea, falling elsewhere. Rather deep depression shown over the St. George's Channel and travelling north-eastward, recovery commencing in S.W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, August 20.

Weather moderately fine over these Islands and France, dull and rainy to the eastward of the North Sea. Fine in the E. all day, dull and rainy in the W.

Temperature changed slightly and irregularly, ranging from 61° at Dover to 50° at Wick; maxima again between 65° and 70° at our inland stations, below 65° elsewhere.

Wind north-westerly in Scotland, westerly in Ireland and England, and south-westerly to southerly in Norway and Denmark. Blowing strongly over the North Sea. Backing to S.W. and S. in the S.W. later.

Sea rough in the N.W. and N.E.

Barometer falling briskly in Denmark and Norway, rising quickly over these Islands and France. Depression, now much deeper, shown in the S. of Norway. Anticyclone shown over N.W. France. Fresh fall commencing in S.W. later.

Sunday, August 21.

Weather unsettled; fine in the E. and N.W., cloudy or dull elsewhere with rain in the S.W. Heavy rain in the W. and S. during day, but clearing in evening.

Temperature changed irregularly, ranging from 61° in London to 50° at Nairn. Thermometer low all day, maxima only exceeding 70° at Nottingham.

Wind very light on all our coasts and varying considerably in direction. Fresh westerly winds blowing in the Channel during day.

Sea nearly smooth.

Barometer rising quickly on the eastern shores of the North Sea and slightly in Scotland, falling elsewhere. Scandinavian depression passing away, but fresh depressions appearing in W. and passing across us.

Monday, August 22.

Weather moderately fine over the greater part of western Europe, but very cloudy in some places. Occasional showers during day, but fair on the whole.

Temperature changed irregularly and slightly; readings ranging from 60° in London to 50° in the Hebrides. Maxima again low, only reaching 70° in London and at Cambridge.

Wind westerly in N. Scotland and over Scandinavia, south-easterly in France, and light and variable on our coasts. Breezes between S.E. and N.E. experienced during day.

Sea rough in the Skager Rack.

Barometer rising except in Sweden and at some French stations. Slight anticyclone lying over France with shallow depression over our western coasts and large depression over Lapland. Pressure decreasing during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head	58	38	56·7	42·1	49·4	−5·5	2	0·16	−0·74	36	35
	Stornoway	60	41	58·1	45·7	51·9	−4·0	4	0·26	−0·39	*	*
	Wick											
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	67	[illegible]	64·3	55·9	60·1	−2·4	7	1·40	+0·85	51	52

The above observations made in 'Scotland N." and t[illegible]nnel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	42	58·4	46·6	52·5	− 4·4	5	0·47	−0·20	*	*
	Aberdeen	64	45	59·7	48·0	53·9	− 3·1	5	0·63	−0·10	25	24
	Leith	64	44	59·1	47·3	53·2	− 4·8	4	0·95	+0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle§	62	44	59·1	47·7	53·4	− 4·5	6	2·69	?	*	*
	Shields	62	44	58·9	48·4	53·7	− 4·3	5	1·07	+0·51	*	*
	Durham	68	42	63·6	47·5	55·6	− 3·4	4	0·90	+0·35	25	25
	York	67	46	?65·3	?49·6	57·5	− 2·5	?6	?0·74	?+0·15	23	23
	Spurn Head	65	48	61·0	52·3	56·7	− 3·4	5	0·43	?	*	*
	Brigg‡ ℳ	67	42	64·1	47·5	55·8	− 4·6	6	0·96	?	22	22
3. ENGLAND, E.	Hillington ℳ	69	46	64·7	49·3	57·0	− 4·3	6	0·77	+0·23	22	22
	Yarmouth	65	46	63·3	51·0	57·2	− 4·0	4	0·43	0·00	*	*
	Geldeston	67	46	64·7	50·6	57·7	− 4·1	5	0·66	+0·31	28	28
	Cambridge	70	46	66·9	50·1	58·5	− 2·7	6	1·52	+1·14	32	32
	Rothamsted	68	46	64·6	51·0	57·8	− 5·2	6	0·97	+0·51	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	68	46	65·1	49·3	57·2	− 3·0	5	1·28	+0·69	*	*
	Nottingham	74	41	70·3	47·9	59·1	− 2·1	7	0·97	+0·32	*	*
	Loughborough	71	43	65·6	49·6	57·6	− 3·5	6	0·98	+0·50	*	*
	Leicester	70	43	65·5	47·7	56·6	− 4·9	6	1·13	+0·54	27	27
	Birmingham (Oscott)										*	*
	Cheadle ℳ	67	44	62·0	48·1	55·1	− 6·0	7	1·46	?	*	*
	Churchstoke ℳ	67	44	62·9	47·5	55·2	− 5·7	7	1·38	?	28	28
	Hereford ℳ	69	43	64·1	47·4	55·8	− 5·7	7	1·81	+1·23	*	*
	Cirencester	67	42	63·9	46·6	55·3	− 6·7	7	2·13	+1·48	32	32
	Oxford	68	45	65·6	50·4	58·0	− 4·5	5	1·70	+1·22	39	39
5. ENGLAND, S.	London†	71	47	67·4	51·7	59·6	− 3·4	5	0·76	+0·21	37	37
	Marlborough ℳ	67	44	64·2	48·0	56·1	− 6·9	6	2·33	+1·71	39	39
	Strathfield Turgiss ℳ	68	43	65·7	48·9	57·3	− 5·7	6	1·69	+1·29	*	*
	Dover	67	50	64·4	54·4	59·4	− 2·6	6	0·58	+0·11	*	*
	Hastings (St. Leonard's)	65	50	63·5	54·1	58·8	− 3·3	6	1·02	+0·57	*	*
	Southampton	71	48	66·1	52·2	59·2	− 3·3	7	1·15	?	43	43
	Hurst Castle	68	53	64·0	54·0	59·0	− 3·9	7	0·95	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart)	60	39	58·2	44·1	51·2	− 5·7	5	0·57	?	*	*
	Glasgow	64	41	59·6	46·6	53·1	− 4·9	4	1·27	+0·37	31	30
	Ardrossan	63	44	60·1	49·1	54·6	− 3·4	3	0·66	−0·24	*	*
	Silloth (Cumberland)	66	44	62·7	49·7	56·1	− 2·4	6	1·31	+0·61	40	40
	Douglas (Isle of Man)	62	45	59·6	47·8	53·7	− 5·4	5	0·77	−0·03	32	32
7. ENGLAND, N.W.	Barrow-in-Furness	67	50	61·7	51·6	56·7	− 2·7	5	0·57	?	*	*
	Stonyhurst	64	42	61·7	47·6	54·7	− 5·5	6	1·23	+0·16	26	26
	Blackpool ℳ	64	44	61·0	50·2	55·7	− 4·1	4	0·80	+0·23	*	*
	Manchester	68	45	62·0	49·1	55·6	− 4·7	6	0·90	+0·15	*	*
	Liverpool Obsr (Bidston)	65	47	61·4	51·3	56·4	− 3·8	5	0·54	+0·05	*	*
	Llandudno ℳ	63	49	61·3	51·3	56·3	− 3·7	5	1·07	+0·57	25	25
	Holyhead	62	51	60·7	52·7	56·7	− 3·5	6	0·47	−0·13	*	*
8. ENGLAND, S.W.	Pembroke	62	54	60·6	54·1	57·4	− 3·2	6	1·04	+0·39	43	43
	Arlington (N. Devon)	64	45	61·4	49·6	55·5	− 5·7	7	1·57	?	*	*
	Falmouth	64	52	61·9	54·2	58·1	− 3·9	5	1·11	+0·46	36	36
	Plymouth	68	49	64·4	53·6	59·0	− 3·0	6	0·80	+0·20	34	34
	Prawle Point	63	50	60·6	52·9	56·8	− 5·1	5	0·89	?	*	*
9. IRELAND, N.	Londonderry	63	42	62·0	47·1	54·6	− 3·9	4	0·25	−0·60	*	*
	Mullaghmore	63	46	?61·1	?50·7	?55·9	? − 2·9	?4	?0·86	?	*	*
	Markree Castle	65	37	62·2	47·6	54·9	− 3·8	6	0·31	−0·59	33	33
	Brookeborough	66	40	63·1	46·4	54·8	− 3·9	4	0·31	?	*	*
	Armagh	61	43	59·9	48·2	54·1	− 4·8	5	1·29	+0·67	32	32
	Donaghadee	64	40	59·7	48·4	54·1	− 4·9	5	0·95	?	*	*
10. IRELAND, S.	Dublin	62	45	59·6	49·6	54·6	− 4·9	6	1·79	+1·22	22	22
	Parsonstown	63	42	61·9	48·9	55·4	− 3·6	5	1·36	+0·56	34	34
	Waterford	69	42	62·5	47·1	54·8	− 5·2	7	1·56	+0·73	*	*
	Roche's Point	65	45	62·3	49·7	56·0	− 4·2	5	2·10	+1·28	*	*
	Valencia	64	43	62·6	49·3	56·0	− 4·0	7	0·99	+0·04	38	38
	Foynes	63	45	59·1	48·3	53·7	− 5·8	6	1·61	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ The rainfall at Alnwick Castle is so exceptional that it has not been used in calculating the average for "England N.E."

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 34.] WEEK ENDING MONDAY, AUGUST 29, 1881. [*Price 2d.*

[*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	36	57	45	51	6 below.	5	21	14 more.	36	36
	2. ENGLAND, N.E.	68	40	59	48	54	5 below.	7	26	21 more.	21	21
	3. ENGLAND, E.	70	37	64	49	57	5 below.	5	17	12 more.	34	35
	4. MID. COUNTIES	70	33	63	48	56	5 below.	6	19	13 more.	34	35
	5. ENGLAND, S.	71	38	64	52	58	4 below.	6	15	10 more.	39	41
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	62	34	57	46	52	6 below.	7	28	19 more.	15	15
	7. ENGLAND, N.W.	67	43	60	50	55	4 below.	7	31	24 more.	22	22
	8. ENGLAND, S.W.	65	44	62	53	57	4 below.	6	17	10 more.	45	47
	9. IRELAND, N.	65	39	58	46	52	6 below.	6	18	10 more.	30	31
	10. IRELAND, S.	66	40	62	49	55	4 below.	6	16	8 more.	31	32

General Remarks.

Weather during this period has been exceedingly wet and unseasonable, very heavy rain being experienced in all parts of the country, accompanied in several places by thunder.

Temperature has again been below the mean in all districts, the deficit being from 4° to 6° except in the S. of Ireland. The highest reading recorded was 71° (in London on the 23rd), while at Alnwick Castle the highest reading during the period was only 58°. The minima were very low in all places; at Cirencester on the 28th, the sheltered thermometer fell to 32°·5, and at Laudale to 34° on the 29th. At our other central and northern stations the minimum readings varied between 37° and 40°.

Rainfall has been in excess of the mean everywhere. In the N.W. and N.E. the fall was as much as five or six times, and in all other districts two or three times, greater than the mean value.

Bright sunshine was deficient, the percentages ranging from 47 in "England, S.W." to 15 in "Scotland, W."

Depressions observed.—Barometric pressure has varied greatly, several depressions having passed in an easterly or north-easterly direction across our Islands. The most important appeared off the S.W. of Ireland on the 25th; at 8 A.M. on the 26th, its centre was shown near Edinburgh, and by the 27th it was travelling away over Norway. During its progress, strong southerly to westerly winds were felt in the S. of Ireland, strong south-westerly winds or gales over England, and strong winds or gales from N.E. or E. over Scotland and the N. of Ireland. The wind then became westerly and north-westerly on all our coasts, but at the close of the period the barometer was again falling in the W., and a new depression was approaching our western coasts.

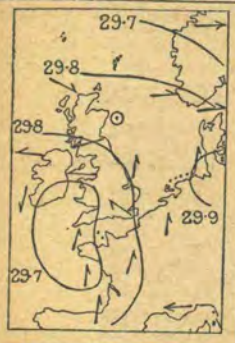
Q 7804. 100.—9/81. Wt. 230. E. & S.

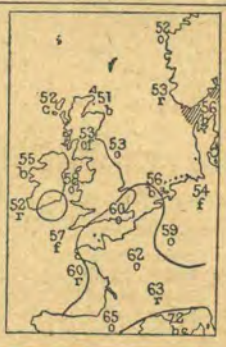
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending August 29, 1881.

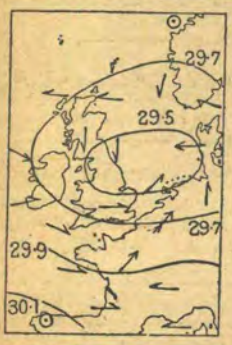
Synoptic Weather Charts.—8 a.m.

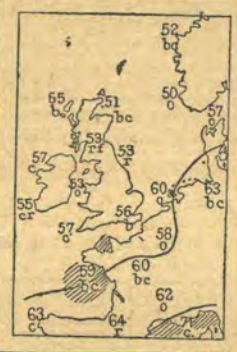
BAROMETER AND WIND.

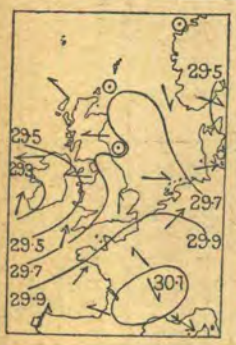
CLOUD, RAIN, SEA, AND TEMPERATURE.

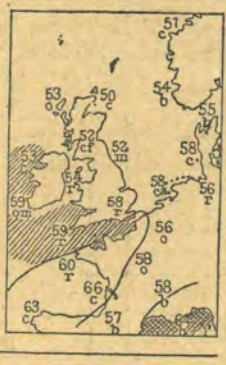


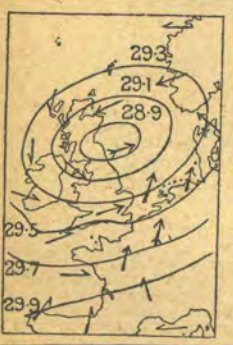












Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 23.

Weather very dull, gloomy, and unsettled except over the northern half of Scotland. Heavy falls of rain occurring generally, but especially over the northern counties, accompanied by thunder and lightning in many places.

Temperature inclined to rise in the S., changing irregularly elsewhere; maximum readings varying from 67° to 71° over the S.E. of England, 57° to 62° over Scotland.

Wind completely cyclonic, but light; southerly in the E., easterly in the N., northerly in the W., and south-westerly to westerly in the S.

Sea very little disturbed.

Barometer unsteady; shallow depressions observed over our western districts and the N.W. of France; both moving north-eastwards later on.

Wednesday, August 24.

Weather still very unsettled and changeable; further heavy falls of rain in the N.E., and subsequently in the W. also; a very temporary improvement occurring over the greater part of England during the day.

Temperature lower in morning, and maxima decidedly lower over England than on 23rd; highest readings ranging from 60° to 65°.

Wind moderate from N.E. to N. over our more northern districts, but fresh from W. in the S.; falling light in the W. and subsequently backing to S. at Valencia.

Sea moderate in the W., S., and N.

Barometer rising generally till night; depressions now over the North Sea, and still travelling eastwards. Fresh but slight fall at Valencia in evening.

Thursday, August 25.

Weather again rough, wet, and unsettled, first in the S.W. and S., afterwards in the N. Heavy falls of rain again, especially over the northern half of the kingdom.

Temperature again fallen generally; maxima 55° in N.E. of England, 60° to 62° in the S.

Wind strong to a gale from S.W. and W. over England and Irsland, light from south-eastward, at first, in the N., but afterwards blowing hard from E. & N.E.

Sea very rough during the day, especially in N.E.

Barometer falling fast; new depression travelling over Ireland and England in an east-north-easterly direction.

Friday, August 26.

Weather still very rough, squally, and wet, but beginning to improve, slowly as the day wore on.

Temperature higher over England but lower in Scotland than on 25th; maximum readings 67° to 70° over England, but only 50° to 51° in Scotland.

Wind at first blowing hard from N.E. in Scotland and W.S.W. over England, but subsequently lulling a little, and drawing into N.W. and N.

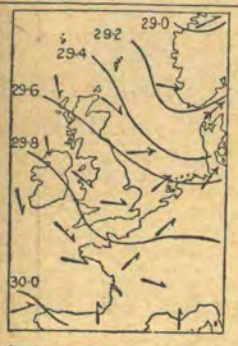
Sea high in N.E., very rough in most places.

Barometer beginning to rise in W. and afterwards in all other districts; depression's centre near Berwick at 8 A.M., and moving north-eastward all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, August 27.

Weather cool and changeable; occasional showers in almost all districts during day, but least in S., where, however, thunderstorms occurred locally. Very heavy cumuli over our southern districts all day.

Temperature fallen again considerably; maxima varying from 57° to 62° in most districts. Night cold and sharp in places.

Wind north-westerly to westerly, and occasionally blowing rather freshly at exposed stations; moderate or light elsewhere.

Sea moderate, and going down everywhere.

Barometer still rising everywhere, pressure becoming more uniform, with no indication of any new disturbance.

Sunday, August 28.

Weather still finer than on 27th, but morning cold in our southern districts. A few local showers still reported, and rain in Ireland at night.

Temperature rising somewhat—first in Ireland, then over England, but maxima all considerably below 70°.

Wind backing to W. or S.W., and to S.E. in the S. of Ireland. Force light to moderate in most places, but increasing to a strong breeze at Valencia by the evening.

Sea slight till evening, when it became rough off the S. of Ireland.

Barometer ceased rising except in the far E. New fall commencing in Ireland during afternoon.

Monday, August 29.

Weather again completely broken up over Ireland and England, fair in N. of Scotland.

Temperature fallen very much in the N., but risen elsewhere. Maxima not high, however, owing to cloud and rain.

Wind again strong from S.W. and W. over Ireland and greater part of England, calm at first in Scotland, but easterly to north-easterly breezes subsequently becoming general over the northern districts and freshening.

Sea rough in the S.W. and S., and subsequently rising in the N.

Barometer falling at all but the Scotch stations. New (but shallow) depressions appearing over Ireland and moving slowly to the eastward.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; → = a gale; → = a fresh to strong breeze; → = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	57	35	54·6	41·7	48·2	−6·1	4	0·27	−0·68	46	46
	Wick	60	35	56·9	42·4	49·7	−5·6	3	0·59	−0·19	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	66	51	63·3	55·4	59·4	−2·6	6	1·69	+1·09	41	43

* The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	38	56·1	43·4	49·8	− 6·2	5	1·09	+0·39	*	*
	Aberdeen	62	36	58·0	44·0	51·0	− 5·5	5	2·16	+1·40	36	36
	Leith	62	38	56·6	46·0	51·3	− 5·8	6	2·89	+2·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	58	41	55·9	47·0	51·5	− 6·2	6	3·17	?	*	*
	Shields	59	45	56·1	47·6	51·9	− 5·9	7	2·81	+2·23	*	*
	Durham	63	43	57·5	45·9	51·7	− 7·4	6	2·59	+2·04	17	17
	York	63	44	61·1	47·3	54·2	− 5·3	7	3·04	+2·44	21	21
	Spurn Head	64	48	61·4	51·1	56·3	− 3·2	6	2·10	?	*	*
	Brigg‡ 𝔐	68	40	63·0	47·6	55·3	− 4·4	6	2·56	?	24	25
3. ENGLAND, E.	Hillington 𝔐	70	37	64·6	46·7	55·7	− 5·2	6	1·50	+0·95	31	32
	Yarmouth	69	44	63·4	50·6	57·0	− 3·8	5	1·31	+0·81	*	*
	Geldeston	70	41	64·1	49·4	56·8	− 4·2	4	1·48	+1·08	39	40
	Cambridge	70	39	65·0	49·4	57·2	− 4·5	5	1·53	+1·04	32	33
	Rothamsted	67	39	63·9	48·1	56·0	− 6·1	6	2·66	+2·16	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	42	62·7	47·0	54·9	− 4·6	6	2·27	+1·76	*	*
	Nottingham	70	37	65·0	46·9	56·0	− 4·5	6	2·63	+1·94	*	*
	Loughborough	69	39	63·8	49·4	56·6	− 4·0	5	2·27	+1·77	*	*
	Leicester	67	41	63·7	48·2	56·0	− 5·0	5	1·96	+1·37	26	27
	Birmingham (Oscott)										*	*
	Cheadle 𝔐	65	42	59·8	47·1	53·5	− 7·3	6	2·94	?	*	*
	Churchstoke 𝔐	68	41	62·6	47·3	55·0	− 5·2	7	1·20	?	37	38
	Hereford 𝔐	69	38	64·0	48·9	56·5	− 4·5	6	0·80	+0·29	*	*
	Cirencester	63	33	61·6	46·8	54·2	− 7·3	6	1·59	+1·00	35	36
	Oxford	66	47	62·9	51·1	57·0	− 4·9	5	1·50	+1·00	36	37
5. ENGLAND, S.	London†	71	48	66·1	52·0	59·1	− 3·4	6	1·17	+0·69	38	40
	Marlborough 𝔐	66	39	62·7	48·7	55·7	− 6·6	6	1·97	+1·28	38	40
	Strathfield Turgiss 𝔐	66	38	64·7	47·3	56·0	− 6·2	6	1·67	+1·25	*	*
	Dover	67	49	63·9	54·3	59·1	− 2·8	4	1·04	+0·55	*	*
	Hastings (St. Leonard's)	67	48	63·2	54·3	58·8	− 3·8	7	1·68	+1·20	*	*
	Southampton	67	43	65·0	51·8	58·4	− 3·5	6	1·94	?	41	43
	Hurst Castle	67	52	64·0	55·3	59·7	− 2·4	6	1·31	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	62	34	57·3	44·4	50·9	− 5·5	6	0·79	?	*	*
	Glasgow	58	40	56·3	45·2	50·8	− 6·7	7	1·48	+0·56	8	8
	Ardrossan	59	43	56·7	47·7	52·2	− 5·3	6	2·04	+1·06	*	*
	Silloth (Cumberland)	62	45	58·0	47·3	52·7	− 5·3	7	3·84	+3·09	17	17
	Douglas (Isle of Man)	60	42	57·7	47·1	52·4	− 6·5	7	3·77	+2·97	20	20
7. ENGLAND, N.W.	Barrow-in-Furness	60	47	58·7	50·4	54·6	− 4·2	6	4·34	?	*	*
	Stonyhurst	62	46	59·0	48·8	53·9	− 5·6	7	3·82	+2·72	23	23
	Blackpool 𝔐	64	45	59·3	49·7	54·5	− 4·6	7	4·35	+3·70	*	*
	Manchester	64	43	59·7	?48·7	?54·2	? − 5·4	7	2·46	+1·67	*	*
	Liverpool Obs' (Bidston)	67	48	60·9	50·4	55·7	− 4·0	7	2·39	+1·87	*	*
	Llandudno 𝔐	66	49	61·6	51·4	56·5	− 3·3	6	2·62	+2·07	21	21
	Holyhead	64	49	60·4	52·0	56·2	− 3·3	6	2·03	+1·38	*	*
8. ENGLAND, S.W.	Pembroke	61	51	60·0	53·7	56·9	− 3·1	5	0·87	+0·18	50	52
	Arlington (N. Devon)	65	44	61·0	50·0	55·5	− 5·5	7	2·77	?	*	*
	Falmouth	63	50	61·7	54·2	58·0	− 3·5	7	2·33	+1·68	43	45
	Plymouth	65	45	63·3	52·4	57·9	− 3·6	6	1·34	+0·68	43	45
	Prawle Point	65	47	61·6	52·6	57·1	− 4·4	6	1·11	?	*	*
9. IRELAND, N.	Londonderry	64	39	57·9	43·8	50·9	− 6·9	6	1·65	+0·80	*	*
	Mullaghmore	63	42	58·6	49·0	53·8	− 4·3	5	2·16	?	*	*
	Markree Castle	65	41	59·9	44·2	52·1	− 5·9	7	1·55	+0·66	35	36
	Brookeborough	63	41	58·3	44·0	51·2	− 6·8	7	1·67	?	*	*
	Armagh	60	44	56·9	47·2	52·1	− 6·4	7	2·10	+1·45	25	25
	Donaghadee	65	41	58·1	47·6	52·9	− 5·6	6	1·38	?	*	*
10. IRELAND, S.	Dublin	66	46	60·9	49·7	55·3	− 3·6	7	1·36	+0·77	35	36
	Parsonstown	66	43	61·1	47·4	54·3	− 4·1	7	1·45	+0·63	32	33
	Waterford	? 66	40	?62·3	47·6	?55·0	? − 4·3	7	2·42	+1·57	*	*
	Roche's Point	66	48	63·4	50·7	57·1	− 2·4	5	1·51	+0·62	*	*
	Valencia	64	48	61·3	50·9	56·1	− 3·3	7	1·76	+0·76	? 26	27
	Foynes	63	46	61·6	47·9	54·8	− 4·1	5	1·36	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.
† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.
‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.
§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 35.] WEEK ENDING MONDAY, SEPTEMBER 5, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	40	56	47	52	4 below.	3	3	4 less.	21	22
	2. ENGLAND, N.E.	67	44	57	49	53	5 below.	6	7	1 more.	10	11
	3. ENGLAND, E.	66	44	60	51	56	5 below.	6	7	1 more.	15	16
	4. MID. COUNTIES	68	37	60	48	54	6 below.	3	3	3 less.	13	15
	5. ENGLAND, S.	69	39	62	49	55	6 below.	3	7	2 more.	20	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	63	38	60	45	52	4 below.	1	less than ½	9 less.	32	34
	7. ENGLAND, N.W.	65	40	59	48	53	5 below.	2	less than ½	8 less.	23	25
	8. ENGLAND, S.W.	67	40	61	49	55	6 below.	2	8	1 more.	52	56
	9. IRELAND, N.	65	33	60	47	54	4 below.	0	—	8 less.	40	42
	10. IRELAND, S.	68	37	61	47	54	4 below.	1	less than ½	8 less.	40	43

General Remarks.

Weather has been very dull and unsettled over the greater part of England, but over Ireland and Scotland the sky has been much clearer and the weather dry. Thunder and lightning have occurred on some occasions at several of our south-eastern and eastern stations.

Temperature has again been below the mean; over Ireland and the E. of Scotland the deficit was 4°, while elsewhere it was as much as 5° or 6°. The maxima were low everywhere, the highest readings at our southern and central stations being only 68° or 69°, while at Alnwick Castle and Shields they were as low as 55°. The nights were very cold over central Ireland, the minimum readings at Markree Castle on August 31st and September 1st, being as low as 32°·6 and 32°·7 respectively, and as low as 34° at Brookeborough. Over Great Britain the minima varied from 37° at Churchstoke to 44° at our E. coast stations.

Rainfall has been a little more than the mean in the south-western, southern, and eastern parts of England, but decidedly less elsewhere. In Ireland, the N.W. of England, and W. of Scotland, the amount of rain has been scarcely appreciable.

Bright sunshine shows an increase in the "Grazing Districts," but a decrease in all the "Wheat-producing Districts." The percentages ranged from 11 in "England, N.E." to 56 in "England, S.W."

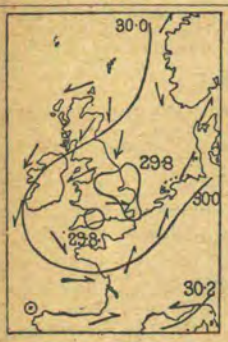
Depressions observed.—During the greater part of the period the barometer was highest in the W. and N., and lowest to the eastward and southward, so that the prevailing winds were northerly or north-easterly. They blew moderately generally, but at times increased to a fresh or strong breeze on our E. and S.E. coasts. On the 4th, however, a depression was appearing in the S.W. from the westward and another was travelling to our N.E. coasts from the eastward. The wind consequently shifted to the eastward at all our southern and south-western stations, while in the N. the northerly wind still held.

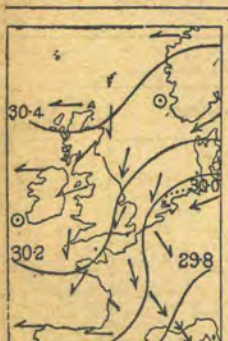
Q 7884. 100.—9/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 5, 1881.

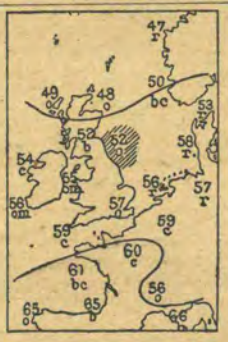
Synoptic Weather Charts.—8 a.m.

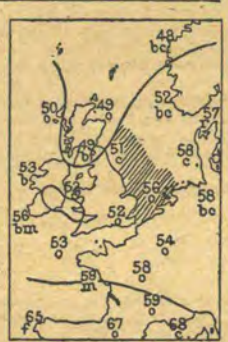
BAROMETER AND WIND.

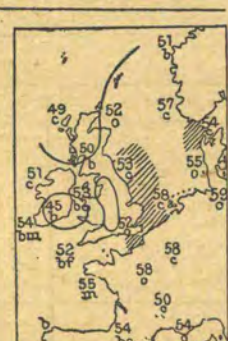




CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, August 30.

Weather beginning to change very decidedly; fine and mild in the S. at first, cold, dull, and gloomy elsewhere, with rain at several northern and north-eastern stations. Cold wet weather subsequently reaching our southern districts.

Temperature fallen in the W., the change subsequently extending over England also; maximum readings below 60° in the N. and N.W., but as high as 68° in London, and 65° at Cambridge. The maxima in S.W. of France 73° to 75°.

Wind fresh to strong from N.E. over Ireland and northern parts of Great Britain, rather fresh from W.S.W. in the Channel, light from S. in the E.; the north-easterly wind subsequently extending to our southern counties, and blew very strongly for a while at the mouth of the Tyne.

Sea rising in the N.E., moderate or slight elsewhere.

Barometer rising decidedly in N. and W., falling in S. and over France. Shallow depressions over England travelling to the eastward, and recovery of pressure spreading all over England in their rear.

Wednesday, August 31.

Weather cold generally; fine in Ireland, cloudy or dull over Great Britain. Slight rain falling at some eastern and south-eastern stations later, but the fine weather in Ireland extending to all the more western and northern districts.

Temperature fallen considerably over England, where maxima ranged from 55° to 61°; continuing low elsewhere in our Islands. Maxima at Biarritz 88°, at Rochefort 73°. Night very sharp in the W. and N.W.

Wind fresh northerly in the E. and N.E., moderate north-easterly in the W.; subsequently increasing to a slight gale on our N.E. coasts, and a strong breeze in the E.

Sea rough on all our E. coasts, and afterwards high in the N.E.

Barometer rising generally. Readings now highest in the N.W., lowest over North Germany; slight oscillations occurring on our S.E. coasts at times.

Thursday, September 1.

Weather remaining cold generally; fine and bright in the W. and N., cloudy, with some showers in the E. and S.E. A considerable fall of rain at Dover later, and a heavy fall at C. Gris Nez, as well as in Belgium and the eastern parts of France.

Temperature still low generally; maxima 55° to 63°, and night very sharp at inland stations in the W. and N.W.

Wind fallen, light and variable from the northward in Ireland and Scotland, but still fresh to strong over England, and again blowing hard on our N.E. coasts at night.

Sea rough in the E. and S.E.; high in the N.E. later on.

Barometer rising at first except in the S.E.; the rise subsequently ceasing even in the W. and N. Slight oscillations of pressure in the S.E., causing temporary increase of wind over our eastern districts.

Friday, September 2.

Weather still cold all over the Kingdom, but fine, except in the E. and N.E., where cloud prevailed and some rain fell. A considerable fall of rain occurred, locally, in some parts of Yorkshire.

Temperature remaining low generally, but the air for the more part dry. Maxima readings 55° to 60° in England, and but little higher in Ireland.

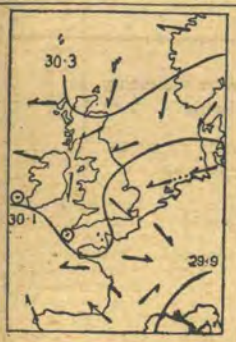
Wind still fresh to strong from N. and N.N.E. over the eastern districts, but light and variable over Ireland. South-westerly airs appearing at Valencia.

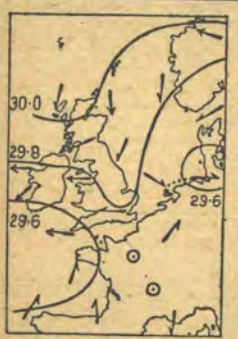
Sea rough in the E. and N.E., but inclined to go down later.

Barometer falling a little generally. Pressure still highest in the N., lowest over Germany and the Mediterranean. Slight baric oscillations still observed on our most eastern coasts.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 3.

Weather fair generally, though dull at first in the N.E. and E.; rain over the northern counties of England later on.

Temperature inclined to rise a little; maxima above 60° almost all over England.

Wind falling light; becoming more easterly over the northern half of the kingdom, but very variable in the S. and S.W. Westerly breezes felt in Belgium and the N.E. of France.

Sea going down, but still rough in the N.E.

Barometer still falling slowly. Readings still rather low over the Netherlands, and isobars beginning to indicate approach of depressions towards our S.W. coasts. Pressure recovering over Mediterranean.

Sunday, September 4.

Weather more cloudy, on the whole, than of late; rain at several of our northern stations, and sky overcast in Scotland and N. of Ireland. Fog in S. of England. Day finer in S. and S.E. than during past few days.

Temperature still inclined to rise in the S. and S.E.; maxima readings 66° at Cambridge and in London.

Wind now drawing into E. in Ireland as well as over N. Britain, and inclined to freshen; northerly and north-westerly breezes felt over our south-eastern counties, veering to W. later on, but continuing light. Southerly breezes appearing in W. of France.

Sea still rather rough at the mouth of the Tyne, moderate or slight elsewhere.

Barometer continuing to fall generally, but still highest in the N. Depression evidently coming towards over S.W. coast from the westward, and another advancing in an easterly direction over the Baltic.

Monday, September 5.

Weather dull, unsettled, and changeable except on our N.E. and E. coasts. Rain falling subsequently in considerable quantity, both over our most southern and northern districts, showers elsewhere.

Temperature little changed.

Wind strong from E. in the W., moderate in the E. and moderate from N. in Scotland. Subsequently backing to N. and N.W. on our eastern coasts.

Sea rough and rising in extreme W. and S.W.

Barometer still highest in N., but falling briskly everywhere. Depression off mouth of Channel, subsequently developing a subsidiary off our S. coast. Another depression over Holstein in morning, and travelling north-westwards over the North Sea later on.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	57	35	54·4	43·0	48·7	−5·1	1	0·10	−0·90	33	34
	Wick	62	41	57·4	46·0	51·7	−3·0	2	0·42	−0·28	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	64	50	60·4	53·4	56·9	−4·6	3	0·53	−0·08	35	37

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	56	43	54·3	46·3	50·3	− 4·8	2	0·50	−0·20	*	*
	Aberdeen	59	40	57·0	46·0	51·5	− 4·3	4	0·23	−0·56	21	22
	Leith	59	43	57·7	47·7	52·7	− 3·4	4	0·15	−0·45	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	45	53·4	48·4	50·9	− 5·9	6	1·72	?	*	*
	Shields	55	45	54·6	48·7	51·7	− 5·3	6	0·66	+0·06	*	*
	Durham	58	45	54·2	47·6	50·9	− 7·1	6	0·71	+0·13	5	5
	York	64	44	59·3	48·6	54·0	− 4·5	6	0·56	−0·13	12	13
	Spurn Head	59	45	57·3	50·9	54·1	− 4·4	7	0·29	?	*	*
	Brigg‡ ⁂	67	46	60·1	50·4	55·3	− 3·4	6	0·36	?	12	13
3. ENGLAND, E.	Hillington ⁂	65	48	59·8	49·4	54·6	− 5·5	6	1·00	+0·40	17	18
	Yarmouth	61	50	60·1	52·7	56·4	− 3·7	6	0·37	−0·22	*	*
	Geldeston	66	50	60·4	52·4	56·4	− 3·6	7	0·72	+0·23	13	14
	Cambridge	66	46	61·6	50·0	55·8	− 4·8	6	0·46	+0·01	?	?
	Rothamsted	64	44	59·4	48·8	54·1	− 6·0	6	0·83	+0·28	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	43	60·6	48·1	54·4	− 4·1	6	0·28	−0·28	*	*
	Nottingham	67	44	61·7	48·7	55·2	− 4·3	4	0·23	−0·47	*	*
	Loughborough	68	46	60·2	49·7	55·2	− 4·6	4	0·20	−0·39	*	*
	Leicester	65	46	60·5	49·5	55·0	− 5·0	5	0·35	−0·25	8	9
	Birmingham (Oscott)										*	*
	Cheadle ⁂	62	40	58·1	45·3	51·7	− 8·0	3	0·09	?	*	*
	Churchstoke ⁂	60	37	56·3	44·6	50·5	− 8·8	2	0·31	?	13	14
	Hereford ⁂	64	42	60·5	46·6	53·6	− 6·7	3	0·35	−0·26	*	*
	Cirencester	64	43	59·7	47·5	53·6	− 7·3	2	0·58	−0·17	21	23
	Oxford	63	46	59·9	49·0	54·5	− 6·4	2	0·20	−0·38	11	12
5. ENGLAND, S.	London†	68	45	61·6	49·3	55·5	− 6·0	2	0·44	−0·08	13	14
	Marlborough ⁂	69	44	60·3	46·3	53·3	− 7·9	2	0·40	−0·39	16	17
	Strathfield Turgiss ⁂	68	39	61·8	43·9	52·9	− 8·5	2	0·55	+0·02	*	*
	Dover	64	51	60·9	53·3	57·1	− 3·9	5	1·00	+0·45	*	*
	Hastings (St. Leonard's)	66	47	62·1	51·0	56·6	− 4·4	3	1·20	+0·66	*	*
	Southampton	69	45	62·7	48·2	55·5	− 4·8	2	0·69	?	31	33
	Hurst Castle	66	47	61·7	48·7	55·2	− 6·3	2	0·90	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	63	40	59·6	44·0	51·8	− 3·5	1	0·01	?	*	*
	Glasgow	62	38	59·2	44·4	51·8	− 4·8	1	0·02	−0·98	33	35
	Ardrossan	61	38	59·6	45·0	52·3	− 4·5	0	—	−1·00	*	*
	Silloth (Cumberland)	63	38	59·6	45·0	52·3	− 4·7	1	0·01	−0·79	18	19
	Douglas (Isle of Man)	61	40	59·6	46·9	53·3	− 4·5	1	0·02	−0·78	45	47
7. ENGLAND, N.W.	Barrow-in-Furness	65	43	61·9	46·1	54·0	− 4·0	1	0·11	?	*	*
	Stonyhurst	62	40	58·5	46·2	52·4	− 5·9	2	0·03	−1·15	28	30
	Blackpool ⁂	63	40	59·5	45·2	52·4	− 5·7	2	0·02	−0·73	*	*
	Manchester	61	40	58·5	46·1	52·3	− 6·5	2	0·05	−0·79	*	*
	Liverpool Obs' (Bidston)	60	44	58·3	48·9	53·6	− 5·2	1	0·01	−0·69	*	*
	Llandudno ⁂	59	48	57·4	51·0	54·2	− 4·3	2	0·03	−0·67	18	19
	Holyhead	60	?45	57·3	50·9	54·1	− 4·5	2	0·02	−0·71	*	*
8. ENGLAND, S.W.	Pembroke	62	46	59·7	49·1	54·4	− 4·7	1	0·13	−0·67	50	54
	Arlington (N. Devon)	62	40	59·4	45·4	52·4	− 7·8	2	0·57	?	*	*
	Falmouth	62	49	59·5	51·0	55·3	− 5·6	2	1·29	+0·60	55	60
	Plymouth	67	45	62·3	48·4	55·4	− 5·4	2	1·30	+0·50	50	54
	Prawle Point	64	44	61·7	48·4	55·1	− 5·5	2	0·81	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	62	38	60·6	47·1	53·9	− 3·4	0	—	?	*	*
	Markree Castle	65	33	62·6	49·6	56·1	− 0·9	0	—	−0·83	44	46
	Brookeborough	64	34	60·5	42·1	51·3	− 5·6	0	—	?	*	*
	Armagh	58	40	57·3	46·5	51·9	− 5·4	2	0·03	−0·66	35	37
	Donaghadee	61	43	59·0	49·1	54·1	− 3·4	0	—	?	*	*
10. IRELAND, S.	Dublin	60	41	57·8	48·2	53·0	− 4·9	1	0·02	−0·56	41	44
	Parsonstown	64	37	61·6	45·9	53·8	− 3·4	0	—	−0·85	45	48
	Waterford	65	37	62·0	43·8	52·9	− 5·2	3	0·03	−0·86	*	*
	Roche's Point	63	44	61·1	47·4	54·3	− 4·3	1	0·12	−0·86	*	*
	Valencia	64	43	62·3	49·3	55·8	− 2·6	1	0·03	−1·03	35	38
	Foynes	68	42	62·2	46·4	54·3	− 3·6	0	—	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 36.] WEEK ENDING MONDAY, SEPTEMBER 12, 1881. [*Price 2d.* [*Annual subscription post paid*, 12*s.* 6*d.*

1.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	62	45	58	49	54	1 below.	5	5	2 less.	8	9
	2. ENGLAND, N.E.	67	43	58	49	54	3 below.	5	5	2 less.	6	7
	3. ENGLAND, E.	66	43	61	50	56	4 below.	5	6	0 (average).	14	15
	4. MID. COUNTIES	70	40	61	48	54	5 below.	4	2	5 less.	14	16
	5. ENGLAND, S.	68	43	62	51	57	4 below.	4	4	3 less.	18	20
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	39	60	49	54	2 below.	3	3	7 less.	17	19
	7. ENGLAND, N.W.	65	43	59	50	55	3 below.	3	2	7 less.	22	24
	8. ENGLAND, S.W.	65	42	61	50	55	4 below.	3	5	3 less.	32	35
	9. IRELAND, N.	66	41	60	49	54	2 below.	4	7	1 less.	12	13
	10. IRELAND, S.	65	42	61	50	55	2 below.	3	3	6 less.	19	21

General Remarks.

Weather during this period has been comparatively dry, but in all places except our extreme S.W. coasts the sky has been very cloudy.

Temperature has been slightly higher than it was last week, but still below the mean for the season, the deficit ranging from 1° in "Scotland, E." to 5° in the "Midland Counties." The highest reading (70°) was registered at Cirencester on the 9th, and the lowest (39°) at Laudale on the 12th.

Rainfall has been less than the mean in nearly all districts, the deficit being more marked at our north-western stations and in "Ireland, S." than elsewhere.

Bright sunshine shows a decided decrease nearly everywhere, and has been very deficient, the percentages varying from 35 in "England, S.W." to only 7 in "England, N.E."

Depressions observed.—During the first part of the period several small depressions were shown over our Islands and the Channel, which caused the wind to be very variable in direction; by 8 A.M. on the 9th, however, pressure was highest to the westward of us, and lowest over N. Germany, so that northerly breezes prevailed in all parts of the country. This condition continued until the close of the period when the barometer was falling slowly in the W. and N., and the wind was inclined to back towards W.

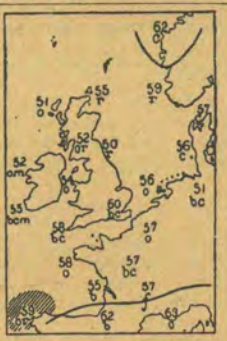
Q 7946. 100.—9/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 12, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Tuesday, September 6.

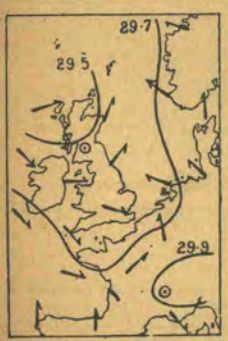
Weather very unsettled and dull; some rain in all districts, most in the N. and E., and thunder in the E. and S.E. later on. Heavy thunderstorms in the E. of France.

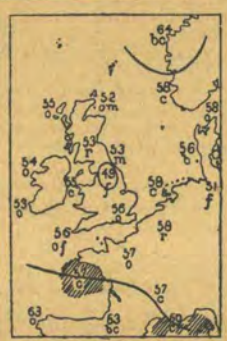
Temperature low generally, especially in the W. and N. Maxima 60° to 66° over England, 57° to 60° in Ireland, and 55° to 59° in Scotland.

Wind varying greatly, mainly northerly and north-easterly in the N. and W., southerly and south-westerly in the S. and E.; light to moderate in force.

Sea moderate to smooth.

Barometer inclined to rise in S.W. and S. The depression in the S.W. beginning to break up, that in the N.E. still moving northwards, being joined in its course by a subsidiary from the English Channel.





Wednesday, September 7.

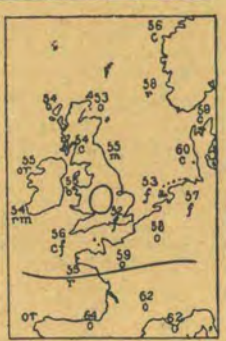
Weather still dull and rainy in the N., improving in the S. where, however, some showers fell later.

Temperature inclined to rise over the more northern districts, where the maxima varied from 60° to 68°. No important change in the S.

Wind light everywhere; backing to N.W. and W. in the western districts, westerly to south-westerly elsewhere.

Sea smooth, except at Lorient and Toulon.

Barometer rising generally. The depression in the S. moving east-north-eastwards and dispersing; that in the N. travelling away northwards with its subsidiary.



Thursday, September 8.

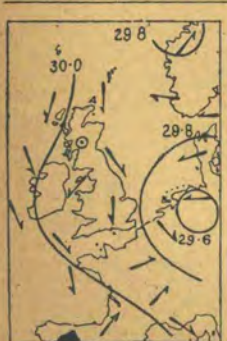
Weather though still dull and showery generally, greatly improved over S. of England for a time, foggy inland, but becoming unsettled and rainy again in the S. later on. Heavy rain and thunderstorms over France, especially at Paris.

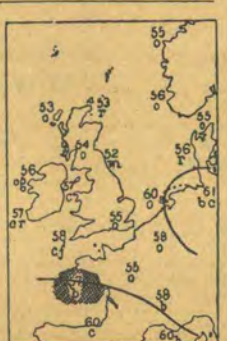
Temperature beginning to fall again, but maxima still rather above 60° in most places,—64° to 69° over the North Midland Counties.

Wind very light and variable, calm in many places. A light north-easterly breeze setting in on our extreme S.E. coast later on.

Sea smooth generally.

Barometer rising in our Islands. Small but well formed depression advancing over France from the Bay of Biscay, and reaching Belgium by night.





Friday, September 9.

Weather (though not settled) considerably finer over England than of late; remaining dull and wet over Scotland, rather so in Ireland. A good deal of rain in Belgium and the Netherlands.

Temperature rising over southern half of England, where maxima were 65° to 68°, fallen a little in the N.

Wind north-westerly to northerly in most places, light to moderate in force, but subsequently freshening both in Ireland and Scotland.

Sea high at Rochefort, moderate or smooth elsewhere.

Barometer rising in our Islands,—most in the N. Depression now over N. Germany, and a shallow subsidiary over our western and south-western districts,—the latter moving slowly to the south-eastwards.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 10.

Weather dull, gloomy, and cold; a great deal of rain on our extreme S.E. coasts, a smaller quantity over the southern half of England generally, and slight falls on our N.E. coasts.

Temperature fallen generally; maxima below 60° all over our eastern and south-eastern counties, and ranging from 53° to 55° in the E. of Scotland. Air raw and very unpleasant.

Wind northerly to north-easterly; moderate to light in force generally, but becoming strong at the mouth of the Tyne after noon.

Sea rising in the N.E., slight elsewhere.

Barometer still lowest over N. Germany, highest, and rising on our western and northern coasts; local oscillations occurring in the S.E., with gusts of wind.

Sunday, September 11.

Weather remaining dull, gloomy, and cold, with rain at times in the N.E., E., and S.E., and some fog. Finer in the W. later in day.

Temperature very low, and air still raw and very uncomfortable over Great Britain, inclined to improve over Ireland. Maximum temperatures over England 55° to 60°.

Wind falling very light in W. and N., and inclined to lull generally; still northerly to north-easterly over our Islands, but backing to N.W. in France.

Sea rather rough in the N.E. and S.E.

Barometer beginning to fall generally over all our more northern districts, but rising in France; readings becoming more uniform.

Monday, September 12.

Weather still inclined to improve in the W., but remaining dull and cold in the N.E. and S.E., with occasional falls of cold rain.

Temperature still very low generally; the maxima nearly all below 60° in our islands, but 73° recorded in the S.W. of France.

Wind light everywhere; northerly (N.E. to N.W.) over Great Britain, variable and calm in Ireland, north-westerly in France.

Sea moderate in the E., smooth elsewhere.

Barometer rising slightly in France and the S. of our islands, falling slightly in the N. Readings over the United Kingdom becoming very uniform. The depression recently noticed over N. Germany now moving away to the north-eastwards.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ➔ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	59	40	55·0	45·4	50·2	−2·9	3	0·28	−0·77	*	*
	Stornoway	59	47	55·6	48·7	52·2	−1·7	3	0·38	−0·32	*	*
	Wick											
CHANNEL ISLANDS	Scilly (St. Mary's)	64	51	61·0	53·6	57·3	−3·3	3	0·35	−0·30	29	33
	Jersey (Noirmont)											

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	46	57·0	48·4	52·7	− 1·8	5	0·67	−0·04	*	*
	Aberdeen	61	48	58·3	48·9	53·6	− 1·6	3	0·18	−0·63	8	9
	Leith	62	45	60·0	48·9	54·5	− 0·8	6	0·64	+0·04	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	46	56·0	48·6	52·3	− 3·9	5	0·29	?	*	*
	Shields	64	45	57·0	48·3	52·7	− 3·7	4	0·24	−0·33	*	*
	Durham	65	47	58·6	49·9	54·3	− 2·7	5	0·52	−0·08	6	7
	York	65	45	60·4	49·0	54·7	− 3·1	5	0·21	−0·50	5	6
	Spurn Head	60	50	57·7	51·9	54·8	− 3·0	5	1·13	?	*	*
	Brigg‡ ⊞	67	43	60·3	48·9	54·6	− 3·5	4	0·35	?	7	8
3. ENGLAND, E.	Hillington ⊞	66	44	60·8	47·8	54·3	− 4·8	3	1·03	+0·43	9	10
	Yarmouth	64	51	61·0	53·0	57·0	− 2·4	5	0·51	−0·14	*	*
	Geldeston	66	49	61·8	51·4	56·6	− 2·7	6	0·48	−0·07	20	22
	Cambridge	66	45	62·1	48·3	55·2	− 4·5	5	0·57	−0·03	12	13
	Rothamsted	64	43	60·0	48·6	54·3	− 5·9	5	0·20	−0·40	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	66	45	61·0	48·7	54·9	− 2·7	4	0·24	−0·35	*	*
	Nottingham	69	42	63·3	47·4	55·4	− 3·1	4	0·21	−0·49	*	*
	Loughborough	69	40	61·1	48·2	54·6	− 4·3	3	0·44	−0·25	*	*
	Leicester	65	41	59·6	47·6	53·6	− 5·4	4	0·43	−0·18	13	14
	Birmingham (Oscott)										*	*
	Cheadle ⊞	64	44	58·3	46·8	52·6	− 6·2	2	0·15	?	*	*
	Churchstoke ⊞	63	41	58·7	45·5	52·1	− 6·4	2	0·05	?	10	11
	Hereford ⊞	67	42	61·4	47·2	54·3	− 5·0	4	0·19	−0·53	*	*
	Cirencester	70	42	60·5	48·4	54·5	− 5·5	5	0·16	−0·64	17	19
	Oxford	68	47	61·4	49·7	55·6	− 4·2	5	0·07	−0·57	16	18
5. ENGLAND, S.	London†	66	47	62·4	51·4	56·9	− 3·7	5	0·20	−0·38	15	17
	Marlborough ⊞	68	44	61·6	49·0	55·3	− 4·7	2	0·04	−0·81	16	18
	Strathfield Turgiss ⊞	68	43	62·9	49·4	56·2	− 4·3	4	0·08	−0·52	*	*
	Dover	64	54	61·6	54·6	58·1	− 2·5	6	1·03	+0·40	*	*
	Hastings (St. Leonard's)	66	49	61·3	52·8	57·1	− 3·4	6	0·98	+0·38	*	*
	Southampton	68	48	62·9	51·4	57·2	− 2·3	3	0·05	?	22	24
	Hurst Castle	65	47	62·1	51·1	56·1	− 4·5	2	0·08	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	61	39	58·9	45·6	52·3	− 2·1	4	0·43	?	*	*
	Glasgow	62	49	59·8	49·7	54·8	− 0·7	3	0·21	−0·84	15	16
	Ardrossan	64	48	59·4	49·6	54·5	− 1·5	3	0·23	−0·80	*	*
	Silloth (Cumberland)	64	45	61·2	49·4	55·3	− 1·2	3	0·54	−0·31	22	24
	Douglas (Isle of Man)	65	45	59·9	49·5	54·7	− 2·3	2	0·05	−0·75	15	16
7. ENGLAND, N.W.	Barrow-in-Furness	65	47	60·6	49·7	55·2	− 1·8	3	0·12	−1·15	*	*
	Stonyhurst	63	44	59·1	48·1	53·6	− 3·9	5	0·27	−1·00	21	23
	Blackpool ⊞	61	44	58·9	48·6	53·8	− 3·4	3	0·09	−0·76	*	*
	Manchester	62	43	58·5	47·6	53·1	− 4·8	5	0·76	−0·16	*	*
	Liverpool Obsr (Bidston)	61	49	59·1	50·9	55·0	− 3·0	1	0·01	−0·85	*	*
	Llandudno ⊞	63	51	59·2	52·1	55·7	− 1·9	4	0·10	−0·71	23	25
	Holyhead	60	53	58·0	53·6	55·8	− 2·2	2	0·02	−0·78	*	*
8. ENGLAND, S.W.	Pembroke	63	51	59·4	51·7	55·6	− 3·0	5	0·49	−0·40	27	30
	Arlington (N. Devon)	62	42	60·1	46·3	53·2	− 6·3	3	0·45	?	*	*
	Falmouth	64	52	61·0	52·6	56·8	− 3·4	4	0·09	−0·61	46	51
	Plymouth	64	44	61·8	48·0	54·9	− 5·1	2	0·50	−0·44	22	24
	Prawle Point	65	47	62·3	50·0	56·2	− 3·8	1	0·10	?	*	*
9. IRELAND, N.	Londonderry	65	42	60·9	48·0	54·5	− 1·2	4	0·65	−0·24	*	*
	Mullaghmore	64	? 48	59·9	51·7	55·8	− 0·8	6	0·89	?	*	*
	Markree Castle	66	42	59·2	47·9	53·6	− 2·5	4	0·77	−0·03	17	19
	Brookeborough	63	41	59·4	47·4	53·4	− 2·6	2	0·48	?	*	*
	Armagh	60	45	58·5	48·7	53·6	− 3·0	6	0·87	+0·15	6	7
	Donaghadee	61	45	59·0	50·0	54·5	− 2·0	4	0·28	?	*	*
10. IRELAND, S.	Dublin	60	48	58·8	50·9	54·9	− 2·3	3	0·16	−0·39	10	11
	Parsonstown	63	42	60·0	47·7	53·9	− 2·6	3	0·57	−0·28	14	15
	Waterford	64	44	61·4	49·6	55·0	− 2·2	4	0·17	−0·73	*	*
	Roche's Point	65	48	62·0	50·6	56·3	− 1·5	2	0·28	−0·78	*	*
	Valencia	65	48	61·7	50·6	56·2	− 1·3	4	0·34	−0·71	32	36
	Foynes	63	48	59·5	49·9	54·7	− 2·3	2	0·06	?	*	*

Stations marked ⊞ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 37.] WEEK ENDING MONDAY, SEPTEMBER 19, 1881. [*Price 2d.*
[*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	66	42	58	47	53	1 below.	3	2	5 less.	4	5
	2. ENGLAND, N.E.	72	40	61	47	54	2 below.	2	4	2 less.	24	27
	3. ENGLAND, E.	75	39	64	48	56	2 below.	3	2	4 less.	34	38
	4. MID. COUNTIES	75	35	65	45	56	2 below.	2	2	6 less.	35	40
	5. ENGLAND, S.	75	37	66	50	58	1 below.	3	1	6 less.	38	44
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	39	59	47	53	3 below.	3	5	5 less.	28	32
	7. ENGLAND, N.W.	66	38	60	49	55	2 below.	2	6	4 less.	28	32
	8. ENGLAND, S.W.	70	41	63	51	57	2 below.	3	2	7 less.	40	46
	9. IRELAND, N.	64	34	59	46	53	3 below.	3	3	5 less.	25	29
	10. IRELAND, S.	66	36	61	46	53	3 below.	3	6	3 less.	26	29

General Remarks.

Weather has been finer and brighter than of late, but still rather cloudy, with occasional showers. A thunderstorm occurred in some parts of England on the 18th.

Temperature has again been below the mean in all districts, the deficit ranging from 1° to 3°. The maxima, which were registered on the 18th, were rather high, varying from 75° in the eastern, central, and southern parts of England to 66° in most other districts. The thermometer was lowest either on the 16th or 17th over Great Britain, when readings as low as from 35° to 37° were recorded over central and southern England; but in Ireland the minima occurred on the 19th, and at Markree a reading of 34° was registered.

Rainfall has been decidedly less than the mean in all districts.

Bright sunshine shows an increase in all districts except "Scotland, E.", the percentages ranging from 46 in "England, S.W.", and 44 in "England, S.", to 5 in "Scotland, E."

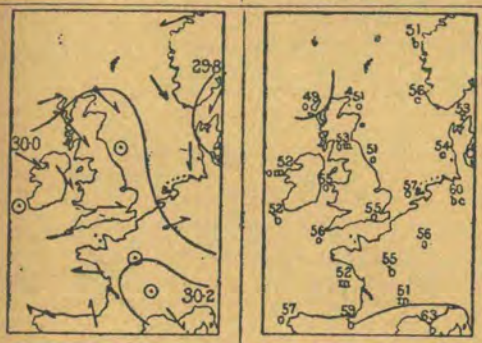
Depressions observed.—During the first few days pressure was very uniform, but rather higher in the S.W. of our Islands and over the Channel, and lower over Scandinavia than elsewhere, so that very variable airs or light north-westerly breezes were general. On the 17th, however, pressure was decreasing quickly in the W., and the wind, though still light, had shifted to the southward on all our coasts. During the 18th two small shallow depressions, accompanied by very variable breezes, passed over our Islands from the westward. At the close of the period the barometer was again falling in the W. with fresh or strong south-south-easterly winds.

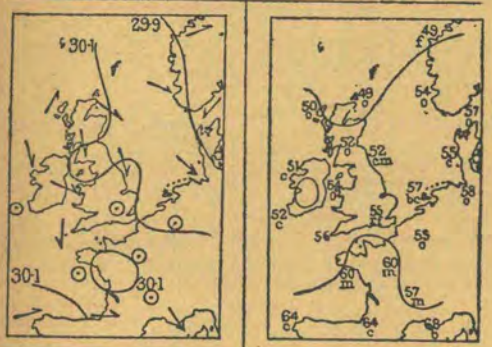
Q 8003. 100.—9/81. Wt. 230. E. & S.

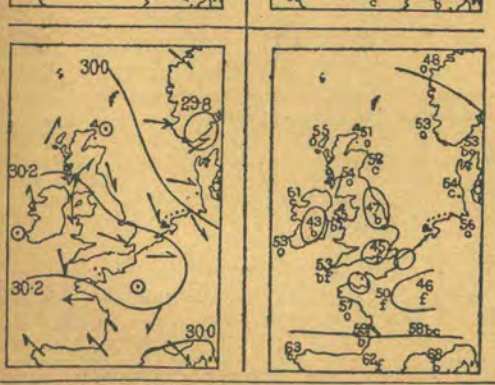
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 19, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 13.

Weather fine over France, the extreme S.E. coast of England, and S. Ireland, dull elsewhere. Little change later, but slight rain falling in N.W. and N.E.

Temperature showing scarcely any change; readings ranging from 49° at Stornoway, to 56° at Falmouth. Maxima varying from 55° in the N. to 64° in the S., and to 67° in London, and 69° at Nottingham.

Wind very light in force; generally easterly in France, westerly or north-westerly on our coasts, and northerly to the eastward of the North Sea. Very light breezes holding all day.

Sea nearly smooth.

Barometer rising somewhat over France and the S. and S.E. of England, falling elsewhere. Readings comparatively high and uniform over France and the British Isles, with well marked depression over S. Sweden. Little change later.

Wednesday, September 14.

Weather fair over the greater part of these Islands and France, but dull to the eastward of the North Sea, with rain in Sweden. Slight showers in a few places, but generally fine.

Temperature risen at the French and some of our eastern and south-eastern stations, fallen in most other places; ranging from 45° at Parsonstown, to 59° at Dover. Maxima between 53° in the N., and 68° in London.

Wind still light in force; between S. and E. in France, and between W. and N. on our coasts. Moderate to fresh north-westerly winds prevailing in Norway and Denmark. Light variable breezes all day.

Sea smooth.

Barometer scarcely changing, readings uniform and comparatively high over France and these Islands, with depression over Sweden. No change of importance later.

Thursday, September 15.

Weather dull in the N. and E. fine in most other places. Fine generally during greater part of day, but slight showers occurring in the extreme N. of Scotland and S.E. of England.

Temperature changed irregularly; readings ranging from 49° in Caithness and at Parsonstown to 60° at Prawle Point. Maxima varying from 55° in the N. to 70° at Prawle Point and 67° in London.

Wind very light from the northward generally and very little change occurring during day.

Sea smooth.

Barometer rising slightly in most places; still uniform and comparatively high over France and these Islands and depression over Sweden disappearing eastward. Pressure increasing slowly all day.

Friday, September 16.

Weather moderately fine except over Scandinavia and our extreme N. and W. coasts, but a good deal of fog prevailing. Fair but foggy or misty all day.

Temperature fallen except in Scotland—quickly in the S.E. Readings ranging from 55° at Stornoway and 59° at Prawle Point to 43° at Parsonstown and 45° in London. Rising briskly later and maxima between 56° and 66°.

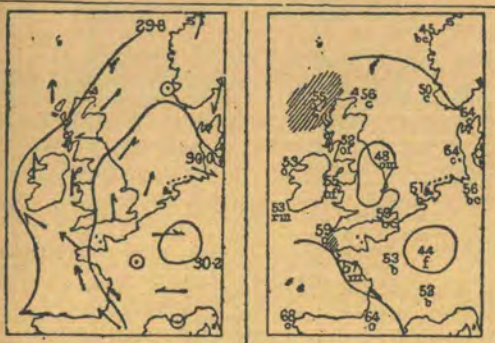
Wind light or moderate in force; south-westerly in the W., westerly and north-westerly in the N. and E., and easterly over France and the Channel. No change later.

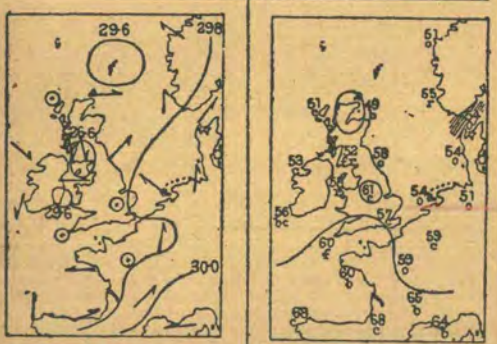
Sea smooth.

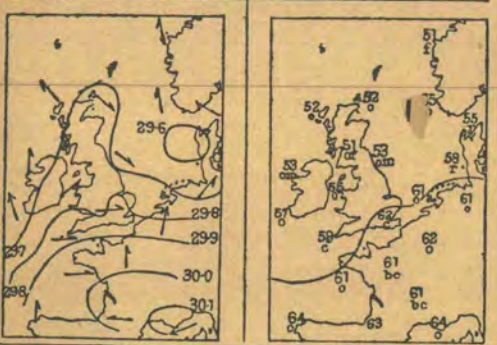
Barometer falling on our N.W. coasts and over Scandinavia, rising slowly elsewhere. Area of high pressure lying over Ireland, England, and N. France. Falling all day most in W.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 17.

Weather fine in the E. of France, the S.E. of England, and to the eastward of the North Sea, cloudy or dull elsewhere, with rain in S. Ireland. Rain extending to the W. and N. of England later.

Temperature fallen over the N. of England, risen elsewhere; readings ranging from 59° in the S. of England to 46° at York. Maxima varying from 55° in the N. to 68° at Nottingham and in London.

Wind south-easterly to southerly on nearly all our own and the French coasts, but drawing into W. and N.W. in Scandinavia and Denmark. Blowing strongly in the Hebrides, but light or moderate generally, southerly all day.

Sea rough at Stornoway and Falmouth.

Barometer falling everywhere and depressions advancing on our S.W. and N.W. coasts. Fall continuing all day, and both depressions advancing over us.

Sunday, September 18.

Weather fine over the greater part of France and many of our southern and eastern stations, cloudy elsewhere, with rain in E. Scotland. Cloudy or dull all day except in the S.E. of England, the W. of Ireland, and N. of Scotland.

Temperature risen except in Scotland; readings ranging from 62° at Prowle Point to 49° at Wick. Maxima higher than of late, reaching 75° at Nottingham, London, and Cambridge.

Wind varying a good deal; blowing from between S.W. and S.E. over France and Great Britain but from N. in Ireland. Shifting to N.W. and W. later and blowing strongly over Bay of Biscay.

Sea moderate to smooth.

Barometer giving way everywhere; pressure highest in S. France and lowest off the W. of Ireland, but small depressions shown off W. France and W. Norway. Disturbances travelling eastward later and pressure recovering.

Monday, September 19.

Weather rather cloudy or dull except in the S. and E. of France, with showers at Jersey and Dover. Fine in the S.E. and E. all day, but becoming unsettled in the W.

Temperature fallen in most places; readings ranging from 47° at Parsonstown to 62° in London. Maxima low again, varying between 56° in the N. and 69° at Nottingham.

Wind southerly and south-easterly in the extreme W., westerly in most other places, moderate in force. Southerly wind in Ireland increasing to a moderate gale later, and backing to S.E.

Sea moderate to smooth generally.

Barometer falling in the extreme W., rising elsewhere. Pressure highest over S. France, with the depressions of the 18th shown over the North Sea, and a fresh disturbance approaching Ireland. Falling in the W. all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head											
	Stornoway	57	40	51·1	44·9	50·3	−1·9	0	—	−1·09	11	13
	Wick	60	36	57·3	44·7	51·0	−2·0	4	0·45	−0·25	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	72	52	65·6	55·3	60·5	+0·5	2	0·13	−0·57	52	60

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	60	44	56·4	47·1	51·8	− 1·5	3	0·05	−0·67	*	*
	Aberdeen	62	42	57·4	46·4	51·9	− 2·6	3	0·09	−0·64	4	3
	Leith	66	43	60·9	47·6	54·3	0·0	3	0·55	−0·05	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	40	57·9	46·9	52·4	− 2·8	4	1·02	?	*	*
	Shields	67	44	59·4	47·0	53·2	− 2·4	2	0·50	−0·15	*	*
	Durham	69	42	62·2	46·0	54·1	− 1·9	1	0·22	−0·38	19	22
	York	67	42	64·1	45·0	54·6	− 1·9	1	0·15	−0·57	?	?
	Spurn Head	65	?46	60·3	?49·6	55·0	− 1·9	2	0·28	?	*	*
	Brigg‡ ℳ	72	40	63·9	46·4	55·2	− 1·9	3	0·16	?	28	32
3. ENGLAND, E.	Hillington ℳ	75	41	64·7	47·9	56·3	− 1·6	3	0·29	−0·31	31	35
	Yarmouth	65	47	61·3	50·7	56·0	− 2·6	6	0·43	−0·28	*	*
	Geldeston	70	40	65·2	48·3	56·8	− 1·7	3	0·10	−0·48	35	39
	Cambridge	75	44	65·7	48·0	56·9	− 1·6	1	0·04	−0·51	35	39
	Rothamsted	73	39	65·1	46·1	55·6	− 3·2	2	0·11	−0·58	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	74	42	65·4	45·0	55·5	− 1·3	2	0·22	−0·38	*	*
	Nottingham	75	38	68·4	45·0	56·7	− 0·9	2	0·04	−0·66	*	*
	Loughborough	75	35	65·2	46·3	55·8	− 2·1	3	0·18	−0·53	*	*
	Leicester	74	38	64·7	47·6	56·2	− 1·8	2	0·42	−0·23	25	28
	Birmingham (Oscott)	75	42	64·5	47·4	57·0	− 0·7	2	0·12	−0·68	*	*
	Cheadle ℳ	67	43	61·3	48·1	54·7	− 2·9	2	0·24	?	*	*
	Churchstoke ℳ	65	37	62·6	43·9	55·6	− 1·9	3	0·34	?	30	34
	Hereford ℳ	69	40	65·6	45·6	53·3	− 4·8	3	0·11	−0·46	*	*
	Cirencester	72	38	65·4	46·4	55·9	− 2·6	2	0·08	−0·78	43	49
	Oxford	74	41	66·7	48·1	57·4	− 1·2	2	0·05	−0·64	41	47
5. ENGLAND, S.	London†	75	41	68·3	48·6	58·5	− 0·8	2	0·10	−0·51	26	30
	Marlborough ℳ	75	37	66·7	46·4	56·6	− 2·2	1	0·04	−0·86	42	48
	Strathfield Turgiss ℳ	74	39	67·5	45·8	56·7	− 2·5	2	0·09	−0·61	*	*
	Dover	66	51	62·7	54·7	58·7	− 1·0	3	0·20	−0·50	*	*
	Hastings (St. Leonard's)	68	51	64·7	54·3	59·5	0·0	5	0·21	−0·47	*	*
	Southampton	75	43	68·4	50·5	59·5	+ 0·9	2	0·08	?	47	54
	Hurst Castle	70	46	65·7	51·9	58·8	− 0·3	3	0·12	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	58	39	57·0	46·4	51·7	− 2·1	3	0·11	?	*	*
	Glasgow	59	41	57·5	46·6	52·1	− 2·0	5	0·45	−0·65	16	18
	Ardrossan	60	46	57·3	48·1	52·7	− 2·3	3	0·38	−0·67	*	*
	Silloth (Cumberland)	65	42	63·0	48·0	55·5	0·0	3	0·50	−0·42	32	36
	Douglas (Isle of Man)	62	40	60·1	46·6	53·4	− 6·8	1	0·80	0·00	36	41
7. ENGLAND, N.W.	Barrow-in-Furness	62	48	60·4	50·6	55·5	− 0·7	2	1·04	?	*	*
	Stonyhurst	64	38	60·6	46·3	53·5	− 3·0	2	0·75	−0·60	29	33
	Blackpool ℳ	62	40	60·1	48·9	54·5	− 2·0	2	0·60	−0·35	*	*
	Manchester	66	40	61·3	46·5	53·9	− 3·0	3	0·82	−0·18	*	*
	Liverpool Obsy (Bidston)	62	45	60·1	49·6	54·9	− 2·2	1	0·16	−0·88	*	*
	Llandudno ℳ	64	46	59·7	49·9	54·8	− 2·1	1	0·23	−0·67	26	30
	Holyhead	61	49	58·6	52·7	55·7	− 1·3	3	0·66	−0·17	*	*
8. ENGLAND, S.W.	Pembroke	62	47	61·0	51·7	56·4	− 1·3	2	0·28	−0·67	45	51
	Arlington (N. Devon)	65	41	62·7	47·3	55·0	− 3·6	4	0·21	?	*	*
	Falmouth	65	49	61·5	53·5	57·5	− 1·6	3	0·19	−0·54	35	40
	Plymouth	67	43	64·8	48·1	56·5	− 2·6	3	0·11	−0·95	40	46
	Prawle Point	70	47	63·9	51·9	57·9	− 1·3	2	0·47	?	*	*
9. IRELAND, N.	Londonderry	64	37	59·7	45·2	52·5	− 2·0	4	0·17	−0·73	*	*
	Mullaghmore	63	47	59·6	49·7	54·7	− 0·5	3	0·05	?	*	*
	Markree Castle	63	34	59·8	42·6	51·2	− 3·8	2	0·12	−0·68	24	27
	Brookeborough	64	36	58·2	45·1	51·7	− 3·4	4	0·22	?	*	*
	Armagh	62	42	57·9	46·8	52·4	− 3·1	4	0·49	−0·26	26	30
	Donaghadee	61	40	58·6	46·9	52·8	− 2·7	3	0·79	?	*	*
10. IRELAND, S.	Dublin	61	45	58·1	47·7	52·9	− 3·4	2	0·20	−0·35	23	26
	Parsonstown	64	38	59·7	43·4	51·6	− 3·9	3	0·80	−0·09	24	27
	Waterford	64	38	?61·3	?45·0	?53·2	?− 3·2	4	0·73	−0·19	*	*
	Roche's Point	62	44	61·1	47·0	54·1	− 2·7	3	1·06	−0·09	*	*
	Valencia	64	43	61·1	46·3	53·7	− 2·7	3	0·75	−0·37	30	34
	Foynes	66	36	61·6	43·5	52·6	− 3·4	3	0·21	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL;
AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, SEPTEMBER 26, 1881.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	64	44	59	49	54	1 above.	4	11	4 more.	15	18
	2. ENGLAND, N.E.	69	42	59	50	55	0 (average).	6	20	14 more.	18	22
	3. ENGLAND, E.	69	44	62	51	57	1 below.	6	12	6 more.	16	19
	4. MID. COUNTIES	71	38	63	50	57	0 (average).	6	11	4 more.	22	26
	5. ENGLAND, S.	71	41	63	52	58	0 (average).	6	10	3 more.	20	24
Principal Grazing &c. Districts.	6. SCOTLAND, W.	67	42	59	50	54	1 below.	6	15	5 more.	19	22
	7. ENGLAND, N.W.	67	47	60	51	56	0 (average).	6	12	1 more.	20	24
	8. ENGLAND, S.W.	67	41	62	52	57	1 below.	5	9	1 less.	38	45
	9. IRELAND, N.	66	38	62	47	54	1 above.	6	17	8 more.	26	31
	10. IRELAND, S.	66	39	62	48	55	0 (average).	5	16	7 more.	29	34

General Remarks.

Weather has been dull and unsettled, with rain in all places. Over our northern stations the rainfall was exceptionally heavy on the 21st and 22nd. A thunderstorm occurred over our south-eastern coasts on the night of the 20th.

Temperature has been about equal to the mean value in all parts of the Kingdom. The thermometer was highest either on the 20th or the 25th, when it rose to 71° at Nottingham and in London, and to between 65° and 70° at our other central and southern stations. The minima were registered generally on the 22nd, and ranged from 38° at Churchstoke and Markree, to 47° in the N.W. of England.

Rainfall has been more than the mean in all districts except "England, S.W.," in most places the excess was rather great, and in "England, N.E." very great.

Bright sunshine has been very little prevalent in most districts, the percentages varying from 18 in "Scotland, E." and 19 in "England, E.," to 45 in "England, S.W."

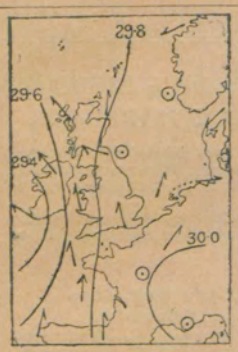
Depressions observed.—During the 20th and 21st depressions were passing across our Islands from the westward, causing southerly winds, strong to a gale in Ireland, moderate and fresh southerly winds in England, and strong south-easterly winds or gales over Scotland. By 8 A.M. on the 22nd a disturbance had reached our S.E. coast, where it gradually filled up: it caused the wind to shift to the westward or north-westward over the greater part of England and to fall light, but on the two following days a fresh easterly to south-south-easterly breeze was blowing on nearly all coasts. At the close of the period the wind had again fallen light and veered to the westward with a slowly rising barometer.

Q 8081. 460.—9/81. Wt. 14790. E. & S.

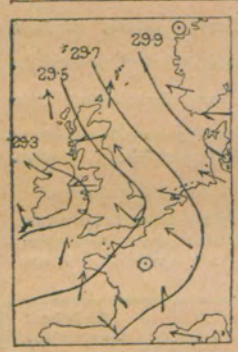
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending September 26, 1881.

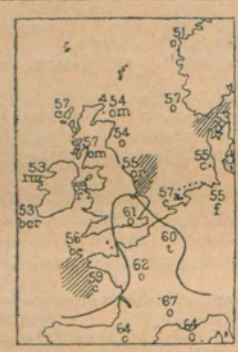
Synoptic Weather Charts.—8 a.m.

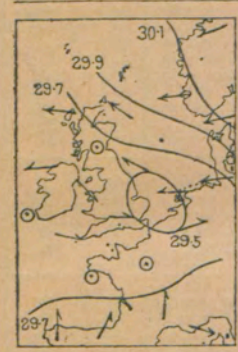
BAROMETER AND WIND.

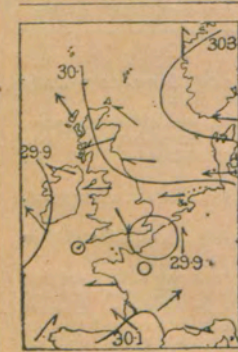


CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 20.

Weather unsettled; dull except on our extreme S.E. coasts and in parts of France, with rain in the S.W. Little change during day, rain very heavy in Ireland, and thunder storms occuring in S.E. at night.

Temperature fallen in the S.E.; changed irregularly elsewhere, readings ranging from 62° in London to 51° at Nairn. Thermometer rising to about 70° over central England later.

Wind south-easterly to southerly all over the country, light in force in the E., but stronger in the W., and blowing a gale in Ireland. Strong southerly and south-easterly winds all day.

Sea rough off Irish coast.

Barometer falling briskly in W., rising somewhat in E. Readings high over E. France, with large depression off the W. of Ireland. Depression not moving much and barometer falling everywhere.

Wednesday, September 21.

Weather cloudy or dull in nearly all places, with rain over the N. of Ireland and N. of England. Sky clearing somewhat in the S. towards night, but raining heavily all day in the N.

Temperature risen a little in the E. and N., fallen elsewhere; ranging from 61° in the S.E. to 52° at Roche's Point. Maxima low, varying from 66° at Nottingham to 56° at Shields.

Wind south-westerly and generally moderate in force over France and the southern parts of the kingdom, but strong easterly and south-easterly winds prevailing over the North Sea and our E. and N. coasts. South-easterly wind increasing to a gale in Scotland at night.

Sea moderate generally, but increasing on our N.E. coasts; slight in most places.

Barometer rising in Scandinavia, falling elsewhere, depression over Ireland, and highest readings over Sweden with rather steep gradient in intervening space. Pressure recovering a little in S.W., and disturbance travelling northward.

Thursday, September 22.

Weather fine in the W. and S.W., cloudy or dull elsewhere, still with heavy rain in the N.E. Rain commencing in S.E. also in the afternoon. Weather very unsettled.

Temperature fallen generally, as much as 10° in the S.E., and readings ranging from 58° at Prawle Point to 47° at Parsonstown and 49° at Oxford. Maxima again low, varying between 54° and 67°.

Wind still blowing strongly from S.E. and E. over the North Sea and Scotland, but light from N.W. and W. elsewhere. Little change later, but wind reaching a gale in Caithness.

Sea exceedingly rough on our N.E. coasts; generally slight elsewhere.

Barometer risen somewhat, except in the S.E. and over N. Germany. Well marked depression shown between Yarmouth and the Dutch coasts, and readings highest over Sweden; gradients steep over the North Sea. Rising all day, but least in the centre of disturbance.

Friday, September 23.

Weather fine over France, parts of the S.W. of England, and W. of Scotland, dull elsewhere with slight rain. Cloudy or dull all day with slight rain very generally.

Temperature fallen a few degrees; readings ranging from 57° in the S.W. to 46° at Parsonstown. Maxima during day varying between 53° in N. Scotland and 65° in S. England.

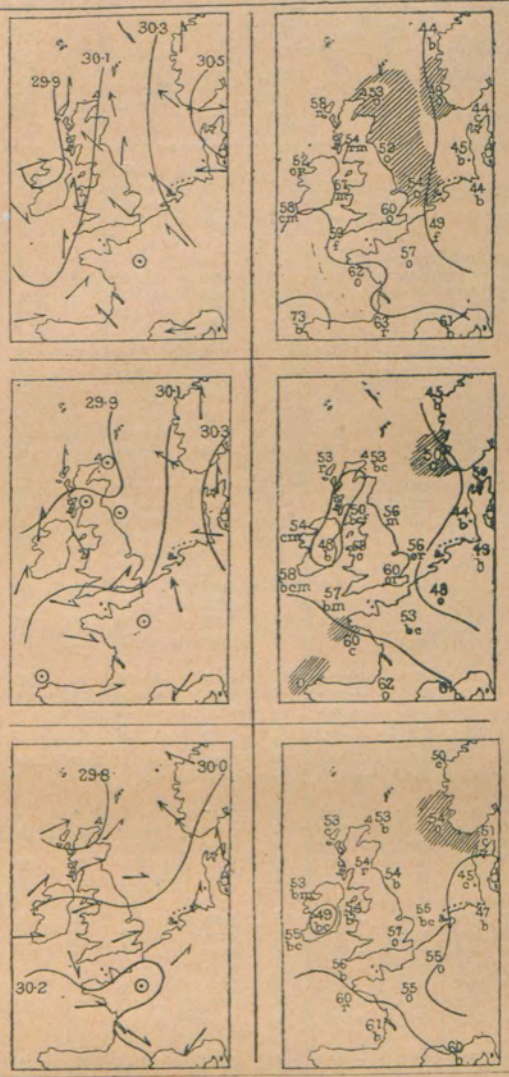
Wind light and variable over the S. of England but easterly to south-easterly elsewhere and blowing rather strongly. South-easterly and southerly winds rather strong in force experienced all day.

Sea still very rough in the N.E.

Barometer risen everywhere; depression in the S.E. shown passing southward over France. Readings still highest over Scandinavia. Fresh disturbance subsequently appearing in W., and barometer falling in Ireland.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, September 24.

Weather cloudy or dull in nearly all places with rain at some western stations. Very unsettled all day, and rain falling in nearly all parts of the country during the evening and night.

Temperature risen a few degrees generally, and readings ranging from 60° in London to 52° at Shields. Maxima during day varying between 53° in the N. and 66° in London.

Wind south-easterly and southerly on nearly all coasts, and though still fresh in the N.E. blowing a moderate breeze generally. Hardly any change later.

Sea rough in the N.E. and E.

Barometer rising over France, the greater part of England, and the eastern shores of the North Sea, falling on our W. coasts. Anticyclone lying over the Skager Rack, with shallow depression on our N.W. coasts. Pressure giving way all day.

Sunday, September 25.

Weather fine in parts of Scotland, Ireland, and the S.W. of England as well as over Denmark, but dull and unsettled elsewhere. Rain in most places in morning, but fine generally during day.

Temperature changed little and irregularly; readings ranging from 60° in the S. to 48° at Nairn. Maxima higher than of late, reaching 71° in London and 69° at Cambridge.

Wind westerly in the W. and S.W., southerly in the E. and over the North Sea. Moderate to fresh in force. Backing to S. and blowing strongly in the N.W. later.

Sea slight or smooth generally.

Barometer falling except in the S.W. Pressure highest over the S. of Scandinavia with several small shallow depressions over us. Falling briskly in the W. later.

Monday, September 26.

Weather dull with slight rain in parts of southern and central England, fine in nearly all other places. Slight showers occurring in most places later.

Temperature fallen a few degrees; ranging at present from 58° at Hurst Castle to 52° at Aberdeen. Maxima lower again, reaching 68° at Nottingham only.

Wind westerly and south-westerly on all our coasts, and southerly to south-easterly on the eastern shores of the North Sea. Moderate or light in force in most places, but reaching a fresh gale at Skudesnaes. Moderate westerly breezes experienced all day.

Sea slight except in the W. of Norway.

Barometer falling somewhat in the North, rising elsewhere. Pressure high over Sweden and France and low to the northward of Scotland. Low pressure in N. subsequently travelling away northward and barometer rising generally.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
SCOTLAND, N.	Sumburgh Head	61	50	59·1	48·9	54·0	+2·7	5	1·05	−0·06	23	28
	Stornoway	60	47	56·3	49·7	53·0	+1·2	4	0·24	−0·46	*	*
	Wick										*	*
CHANNEL ISLANDS	Scilly (St. Mary's)											
	Jersey (Noirmont)	66	51	63·1	54·9	59·0	+0·1	5	0·47	−0·28	42	50

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	62	44	58·9	48·4	53·7	+ 1·7	3	0·34	−0·36	*	*
	Aberdeen	64	46	57·7	49·3	53·5	+ 0·5	5	1·12	+0·29	15	18
	Leith	64	44	59·3	48·9	54·1	+ 1·1	5	1·69	+1·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	61	46	56·9	49·1	53·0	− 0·7	6	3·40	?	*	*
	Shields	62	47	57·6	49·9	53·7	− 0·4	5	2·90	+2·25	*	*
	Durham	67	43	59·4	48·5	54·0	− 0·6	6	1·73	+1·12	18	21
	York	69	47	60·7	50·0	55·4	+ 0·3	5	1·99	+1·29	20	24
	Spurn Head	62	52	58·6	53·0	55·8	+ 0·3	6	0·95	?	*	*
	Brigg‡ ℳ	68	42	61·9	50·2	56·1	+ 0·5	6	1·27	?	17	20
3. ENGLAND, E.	Hillington ℳ	68	44	63·1	50·2	56·7	+ 0·2	6	0·93	+0·33	21	25
	Yarmouth	61	49	58·9	51·7	55·3	− 2·2	6	1·79	+1·04	*	*
	Geldeston	68	44	62·6	51·8	57·2	+ 0·2	6	1·15	+0·59	15	18
	Cambridge	69	46	64·7	50·3	57·3	+ 0·4	6	0·98	+0·43	12	14
	Rothamsted	68	45	62·5	49·5	56·0	− 1·1	6	1·33	+0·63	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	45	61·6	49·9	55·8	+ 0·4	6	1·32	+0·72	*	*
	Nottingham	71	46	65·0	50·1	57·6	+ 1·7	7	1·05	+0·34	*	*
	Loughborough	68	48	63·6	51·3	57·4	+ 1·4	6	0·93	+0·18	*	*
	Leicester	68	48	63·9	50·5	57·2	+ 0·6	6	1·13	+0·48	17	20
	Birmingham (Oscott)	68	46	62·7	50·1	56·4	0·0	5	0·89	+0·09	*	*
	Cheadle ℳ	65	46	59·8	48·8	54·3	− 2·0	7	1·34	?	*	*
	Churchstoke ℳ	65	38	61·3	48·0	54·7	− 1·4	5	1·22	?	26	31
	Hereford ℳ	67	39	63·5	50·9	57·2	+ 0·2	4	1·13	+0·33	*	*
	Cirencester	66	44	63·0	50·4	56·7	− 0·4	5	1·43	+0·54	24	29
	Oxford	69	46	63·4	51·9	57·7	+ 0·7	7	0·94	+0·24	20	24
5. ENGLAND, S.	London†	71	46	65·3	51·4	58·4	+ 0·8	7	1·18	+0·53	13	15
	Marlborough ℳ	69	41	62·8	48·5	55·7	+ 0·4	7	1·38	+0·44	22	26
	Strathfield Turgiss ℳ	69	44	63·7	48·8	56·3	− 1·4	3	0·85	+0·14	*	*
	Dover	64	52	61·9	55·0	58·5	+ 0·3	6	0·64	+0·06	*	*
	Hastings (St. Leonard's)	67	50	62·7	53·3	58·0	0·0	6	0·70	0·00	*	*
	Southampton	70	45	64·8	51·2	58·0	+ 0·5	5	1·15	?	25	30
	Hurst Castle	65	47	63·1	53·9	58·5	+ 0·6	6	1·07	?	*	*
6. SCOTLAND, W.	Landale (Loch Sunart) §	62	42	58·5	50·6	54·6	+ 2·3	6	1·47	?	*	*
	Glasgow	63	45	58·3	48·9	53·6	+ 0·7	7	1·63	+0·53	13	15
	Ardrossan	62	43	57·7	49·0	53·4	− 0·1	6	0·98	−0·07	*	*
	Silloth (Cumberland)	67	45	60·3	49·5	54·9	+ 0·9	4	1·30	+0·35	22	26
	Douglas (Isle of Man)	61	42	59·5	49·6	54·6	− 0·5	5	1·90	+1·10	22	26
7. ENGLAND, N.W.	Barrow-in-Furness	65	51	61·1	52·1	56·6	+ 1·6	5	1·85	?	*	*
	Stonyhurst	65	47	59·0	49·2	54·1	− 1·2	5	1·09	−0·31	15	18
	Blackpool ℳ	66	47	59·6	51·4	55·5	+ 0·1	6	1·77	+0·74	*	*
	Manchester	65	48	59·7	49·7	54·7	− 0·8	6	1·03	−0·02	*	*
	Liverpool Obsy (Bidston)	67	50	59·9	52·1	56·0	0·0	6	1·28	+0·20	*	*
	Llandudno ℳ	64	47	60·9	51·8	56·4	+ 0·5	6	0·57	−0·38	24	29
	Holyhead	64	49	60·4	53·1	56·8	+ 1·2	6	0·97	+0·07	*	*
8. ENGLAND, S.W.	Pembroke	63	48	60·0	53·0	56·5	− 0·3	5	1·29	+0·26	36	43
	Arlington (N. Devon)	62	41	61·3	50·9	56·1	− 1·5	6	1·06	?	*	*
	Falmouth	63	49	61·5	53·4	57·5	− 0·5	5	0·88	+0·10	41	49
	Plymouth	65	43	63·4	51·6	57·5	− 0·5	4	0·70	−0·38	36	43
	Prawle Point	67	48	62·7	52·6	57·7	− 0·3	3	0·38	?	*	*
9. IRELAND, N.	Londonderry	66	43	62·8	46·4	54·6	+ 1·4	6	1·20	+0·28	*	*
	Mullaghmore	65	50	61·6	51·7	56·7	+ 2·8	6	2·82	?	*	*
	Markree Castle	66	38	61·9	45·2	53·6	+ 0·1	6	2·09	+1·26	25	30
	Brookeborough	65	39	61·9	45·1	53·5	− 0·3	6	1·72	?	*	*
	Armagh	62	40	60·2	46·0	53·1	− 0·9	5	0·77	−0·02	26	31
	Donaghadee	63	42	60·4	48·1	54·3	+ 0·3	5	1·37	?	*	*
10. IRELAND, S.	Dublin	64	45	61·5	49·7	55·6	+ 0·5	4	0·86	+0·18	30	36
	Parsonstown	64	41	61·4	45·0	53·2	− 1·0	6	2·27	+1·38	29	34
	Waterford	66	39	?62·2	?45·4	?53·8	?− 1·7	7	1·98	+1·02	*	*
	Roche's Point	64	45	62·3	49·1	55·7	+ 0·2	4	1·42	+0·33	*	*
	Valencia	63	47	61·3	51·3	56·3	+ 1·1	4	1·07	+0·27	28	33
	Foynes	64	43	60·8	46·6	53·7	− 1·1	5	1·86	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 39.] WEEK ENDING MONDAY, OCTOBER 3, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	37	61	46	53	2 above.	1	2	5 less.	25	31
	2. ENGLAND, N.E.	67	35	61	46	53	0 (average).	2	1	6 less.	54	42
	3. ENGLAND, E.	65	36	60	48	51	4 below.	1	1	6 less.	47	58
	4. MID. COUNTIES	70	35	63	43	52	2 below.	1	less than ½	7 less.	47	58
	5. ENGLAND, S.	67	35	62	45	53	3 below.	1	less than ½	7 less.	51	63
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	65	38	60	47	53	1 above.	2	5	3 less.	30	37
	7. ENGLAND, N.W.	65	37	60	47	54	0 (average).	1	1	11 less.	41	50
	8. ENGLAND, S.W.	67	42	60	49	55	2 below.	2	1	8 less.	52	64
	9. IRELAND, N.	65	38	61	49	55	2 above.	2	3	6 less.	32	40
	10. IRELAND, S.	68	38	62	50	56	2 above.	4	4	6 less.	34	42

General Remarks.

Weather has been much finer than of late, though some fog or haze has been prevalent at many stations. Some slight showers occurred during the first two days, but the greater part of the week was quite dry.

Temperature has been a little above the mean in Ireland and Scotland, but slightly below in most of the English districts. The highest reading (70°) was registered at Loughborough on September 28th, and the lowest (35°) over our eastern, southern, and central districts either on the 30th September or 1st October.

Rainfall has been decidedly less than the mean in all districts.

Bright sunshine has been much more general than for some time past; the percentages were rather high, ranging from 31 in "Scotland, E.", to 63 in "England, S." and 64 in "England, S.W."

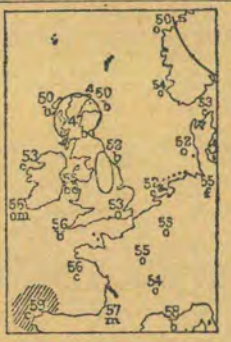
Depressions observed.—At the commencement of the period, pressure was highest in the southern and south-eastern parts of our area, and lowest to the northward, but during the latter part it was highest in the N.E. and lowest in the W. and S.W. Very few depressions have appeared, the chief one travelling northwards outside our western coasts on the 29th, causing strong southerly to south-westerly winds or gales at all our western stations. On most other days the wind has been light or moderate,—chiefly southerly to south-south-easterly in the W. and N., and generally easterly in the S. and E.

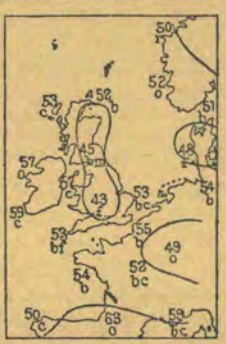
Q 8163. 100.—10/81. Wt. 230. E. & S.

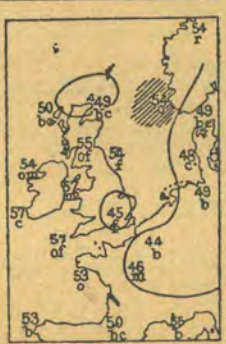
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 3, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, September 27.

Weather fine in parts of Ireland and Scotland, cloudy or dull elsewhere, with rain over central and eastern England. Rain commencing in Ireland later, and sky clearing over England.

Temperature fallen; ranging from 56° in the S.W. and 57° at Leith, to 49° at York. The maxima during the day varying between 57° in the N. and 65° in the S.

Wind light or moderate everywhere; from E. over France, from W. on our coasts, and from S. over the countries to the eastward of the North Sea. No change of importance later.

Sea nearly smooth.

Barometer rising over the whole of western Europe; large area of high pressure shown in the S., with large area of low pressure in the N. Slight decrease occurring in Ireland later.

Wednesday, September 28.

Weather dull in the W. of Ireland and W. of Scotland, fine and bright elsewhere. Much fog prevailing over central and southern England. Rain falling in extreme W. later, but weather continuing fine generally.

Temperature fallen again; readings ranging from 59° in the S.W., to 43° at Nottingham. Rising briskly later at the inland stations, and 67° reached at York, and 66° at Nottingham.

Wind still moderate or light, easterly over France, southerly to westerly over these Islands, and variable over Scandinavia. Backing to S.E. at Valencia, and increasing to a gale at 6 P.M.

Sea nearly smooth.

Barometer rising everywhere; large anticyclone lying over the whole of these Islands and their neighbourhood. Giving way in the W. later, but still rising elsewhere.

Thursday, September 29.

Weather very fine over France and eastern and southern England, dull elsewhere with rain in W. Ireland. Dense fog at some of our inland stations. Very fine all day in the E., rainy in W. and N.

Temperature risen in Scotland, fallen over France and our S.E. coasts, changed irregularly elsewhere. Readings ranging between 59° at Valencia and 41° at Oxford. Maxima between 58° and 67°.

Wind still easterly over France, but southerly over nearly the whole of these Islands; blowing a gale in the W. of Ireland and Scotland. Gale holding all day.

Sea rough off the W. of Ireland and at Stornoway.

Barometer rising over nearly the whole of the Continent and the greater part of England, falling on our W. and N. coasts. Fall spreading to all places later and large depressions shown in W.

Friday, September 30.

Weather variable; fine over France, the E. of England, and N. of Scotland, more or less cloudy elsewhere, with rain in W. Norway and fog in southern England. Slight rain in W. later; fine all day elsewhere.

Temperature fallen in most places, readings ranging from 58° at Pembroke and 59° at Leith to 45° in London. Maxima varying between 59° and 69°.

Wind light or moderate on all our coasts, but fresh at some continental stations. Blowing from E. over France, from S. over these Islands, and from SW. in Scandinavia. Very little change during day.

Sea nearly smooth.

Barometer rising over the British Isles and N. Germany, falling in S. France and over Scandinavia. Readings high and uniform over these Islands. Slight fall taking place later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 1.

Weather very foggy over central and southern England, fine in nearly all other places, fog clearing later and weather fine and clear generally.

Temperature risen N. and W., fallen over England and France; ranging from 59° at Valencia to 43° in London. Maxima moderately uniform, ranging from 59° in the N. to 67° at Pembroke.

Wind still easterly over England and France and south-easterly to southerly in Ireland and Scotland. Blowing strongly at Valencia. Very little change during day, but easterly wind on our S.E. coast increasing.

Sea rough at Valencia.

Barometer rising briskly in Scandinavia, falling slightly elsewhere. Anticyclone shown on eastern shores of North Sea. Pressure decreasing all day, but distribution unaltered.

Sunday, October 2.

Weather exceedingly fine over nearly the whole of our area from Lapland to the N. of Spain. Sky nearly clear all day and no rain at any station.

Temperature fallen except over central England, readings ranging from 58° at Valencia to 44° at Cambridge. Thermometer low all day, and maxima varying between 57° and 63°.

Wind north-easterly to easterly over Scandinavia, France, and England, south-easterly to southerly in Ireland and Scotland. Moderate to fresh in force. Little change later.

Sea rather rough at Valencia and Spurn Head.

Barometer risen in Norway and Sweden, and as high as 30·56 ins. at Hernosand, fallen elsewhere. Falling slowly all day.

Monday, October 3.

Weather again fine at the great majority of stations, but more cloudy than on 2nd. Fine generally during day, but slight showers occurring on E. coast.

Temperature changed rather irregularly, readings ranging from 57° at Roche's Point to 41° at Parsonstown. Maxima between 56° and 63°.

Wind southerly in Scotland, easterly elsewhere, and moderate to strong in force. Easterly winds holding all day.

Sea rough off Yarmouth.

Barometer rising slowly generally. Pressure still highest over the Gulf of Bothnia and lowest over the N. of Spain. Scarcely any change during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds: o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
SCOTLAND, N.	Sumburgh Head											
	Stornoway	61	43	57·6	46·7	52·2	+2·1	3	0·21	−0·90	33	41
	Wick	60	45	58·9	46·9	52·9	+2·6	2	0·12	−0·58	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)										•	•
	Jersey (Noirmont)	63	47	61·0	50·4	55·7	−2·1	2	0·02	−0·77	66	81

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	64	42	60·3	45·6	53·0	+ 2·4	1	0·03	−0·63	*	*
	Aberdeen	63	37	59·7	46·9	53·3	+ 1·7	2	0·56	−0·25	25	31
	Leith	65	39	61·9	44·6	53·3	+ 1·6	1	0·09	−0·50	*	*
2. ENGLAND, N.E.	Alnwick Castle	63	42	58·4	46·4	52·4	− 0·5	2	0·21	?	*	*
	Shields	65	43	59·9	46·6	53·3	+ 0·2	2	0·14	−0·48	*	*
	Durham	65	39	61·1	44·6	52·9	− 0·6	1	0·08	−0·57	28	35
	York	67	41	63·6	44·9	54·3	+ 0·3	2	0·07	−0·63	33	41
	Spurn Head	63	50	59·4	51·7	55·6	+ 1·5	0	—	?	*	*
	Brigg‡ ⁂	65	35	61·9	42·2	52·1	− 1·9	2	0·03	?	41	51
3. ENGLAND, E.	Hillington ⁂	65	38	61·9	41·4	51·7	− 3·3	2	0·05	−0·54	41	51
	Yarmouth	60	42	58·1	47·6	52·9	− 3·1	1	0·03	−0·72	*	*
	Geldeston	63	38	59·7	43·9	51·8	− 3·7	3	0·13	−0·40	53	65
	Cambridge	65	36	61·7	40·1	50·9	− 4·9	1	0·04	−0·51	46	57
	Rothamsted	62	38	59·7	40·1	49·9	− 5·7	0	‖0·05	−0·65	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	69	37	64·1	41·6	52·9	− 1·0	1	0·07	−0·54	*	*
	Nottingham	69	37	65·0	41·6	53·3	− 1·1	1	0·03	−0·67	*	*
	Loughborough	70	37	64·8	41·8	53·3	− 1·2	1	0·01	−0·70	*	*
	Leicester	66	38	62·6	41·6	52·1	− 3·1	1	0·06	−0·59	43	53
	Birmingham (Oscott)	67	40	63·0	43·9	53·5	− 1·4	0	—	−0·80	*	*
	Cheadle ⁂	63	40	59·9	44·7	52·3	− 2·5	1	0·01	?	*	*
	Churchstoke ⁂	65	35	60·7	42·0	51·4	− 3·5	4	0·11	?	39	48
	Hereford ⁂	66	35	62·3	42·9	52·6	− 3·2	1	0·05	−0·75	*	*
	Cirencester	64	38	60·6	42·4	51·5	− 4·5	1	0·01	−0·84	51	63
	Oxford	66	37	62·0	42·7	52·4	− 3·6	1	0·04	−0·66	54	67
5. ENGLAND, S.	London†	67	39	63·4	41·9	52·7	− 3·3	0	—	−0·65	37	46
	Marlborough ⁂	65	37	61·8	40·9	51·4	− 4·6	1	0·01	−0·93	55	68
	Strathfield Turgiss ⁂	65	35	62·7	39·6	51·2	− 4·9	1	0·17	−0·53	*	*
	Dover	61	48	58·1	50·9	54·5	− 2·4	0	—	−0·71	*	*
	Hastings (St. Leonard's)	65	45	62·2	48·1	55·2	− 1·7	2	0·03	−0·72	*	*
	Southampton	67	41	64·5	44·3	54·4	− 1·8	0	—	?	61	75
	Hurst Castle	66	42	62·7	45·9	54·3	− 2·2	3	0·08	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	62	45	59·7	50·2	54·5	+ 3·5	2	1·49	?	*	*
	Glasgow	62	41	59·3	47·5	53·4	+ 2·1	1	0·09	−1·00	23	28
	Ardrossan	62	42	59·1	47·7	53·4	+ 1·3	2	0·17	−0·87	*	*
	Silloth (Cumberland)	65	38	61·5	43·9	52·7	− 0·2	1	0·06	−0·89	35	43
	Douglas (Isle of Man)	62	43	59·6	47·2	53·4	+ 0·5	2	0·57	−0·25	32	40
7. ENGLAND, N.W.	Barrow-in-Furness	64	45	61·1	49·0	55·1	+ 1·2	1	0·04	?	*	*
	Stonyhurst	62	41	59·0	45·9	52·5	− 1·5	2	0·03	−1·39	39	48
	Blackpool ⁂	65	37	60·5	44·7	52·6	− 1·3	1	0·02	−1·06	*	*
	Manchester	64	42	60·9	45·0	53·0	− 1·0	2	0·11	−0·95	*	*
	Liverpool Obsy (Bidston)	64	42	60·6	47·1	53·9	− 1·1	1	0·04	−1·06	*	*
	Llandudno ⁂	64	46	61·0	49·6	55·3	+ 0·8	1	0·07	−0·91	42	52
	Holyhead	61	44	58·9	50·3	54·6	+ 0·1	1	0·02	−0·96	*	*
8. ENGLAND, S.W.	Pembroke	67	46	60·1	51·3	55·7	+ 0·4	2	0·05	−0·98	53	65
	Arlington (N. Devon)	65	42	60·7	45·1	52·8	− 3·7	3	0·39	?	*	*
	Falmouth	62	50	59·0	52·2	55·6	− 1·3	3	0·05	−0·77	53	65
	Plymouth	62	44	60·2	46·0	53·1	− 4·2	2	0·16	−0·87	50	62
	Prawle Point	64	48	61·0	50·6	55·8	− 1·2	0	—	?	*	*
9. IRELAND, N.	Londonderry	65	38	62·2	46·3	54·3	+ 2·3	2	0·18	−0·80	*	*
	Mullaghmore	65	48	62·3	52·0	57·2	+ 4·4	2	0·42	?	*	*
	Markree Castle	63	39	61·2	47·7	54·5	+ 2·3	4	0·24	−0·61	31	38
	Brookeborough	63	39	61·0	46·2	53·6	+ 1·1	2	0·24	?	*	*
	Armagh	62	38	59·5	48·3	53·9	+ 1·0	1	0·12	−0·68	33	41
	Donaghadee	63	46	59·1	50·7	54·9	+ 2·2	2	0·36	?	*	*
10. IRELAND, S.	Dublin	63	46	60·2	50·8	55·5	+ 1·6	2	0·37	−0·26	40	49
	Parsonstown	64	38	61·6	48·3	55·0	+ 2·0	4	0·35	−0·52	29	36
	Waterford	65	42	61·4	48·3	54·9	+ 0·7	7	0·51	−0·47	*	*
	Roche's Point	64	48	62·0	53·4	57·7	+ 3·3	3	0·39	−0·76	*	*
	Valencia	63	50	61·2	53·6	57·8	+ 3·7	4	0·64	−0·76	33	41
	Foynes	68	42	61·9	48·0	55·0	+ 1·5	3	0·19	?	*	*

Stations marked ⁂ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

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‖ Dew only.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

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ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

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The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
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10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	36	55	43	49	0 (average).	6	7	0 (average).	14	18
	2. ENGLAND, N.E.	59	36	54	43	48	4 below.	5	5	2 less.	20	26
	3. ENGLAND, E.	59	33	53	41	47	7 below.	6	7	1 more.	18	24
	4. MID. COUNTIES	59	32	54	41	47	6 below.	4	4	3 less.	18	23
	5. ENGLAND, S.	60	29	54	41	47	8 below.	5	8	1 more.	16	20
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	57	33	55	43	49	2 below.	4	7	5 less.	18	24
	7. ENGLAND, N.W.	58	29	54	43	48	4 below.	4	5	6 less.	23	30
	8. ENGLAND, S.W.	60	31	56	43	50	6 below.	4	4	6 less.	26	34
	9. IRELAND, N.	60	29	56	43	49	2 below.	5	4	5 less.	19	25
	10. IRELAND, S.	61	32	57	46	52	1 below.	4	3	8 less.	22	29

General Remarks.

Weather has been dull and rather unsettled in all parts of the Kingdom. Showers have fallen generally, and heavy rain, accompanied by thunder and lightning, occurred over the S.E. of England on the 8th.

Temperature has been below the mean in all districts except "Scotland, E."; over England the deficit has been very marked, being as much as 8° at the southern stations. The maxima for the period have ranged from 57° in the W. of Scotland to 61° in the S. of Ireland. The minima, which were registered in most places on the 6th, were very low, ranging from 29° at Strathfield Turgiss and over the inland parts of "Ireland, N.," 30° at Marlborough, and 31° at Arlington (N. Devon), to 36° on our extreme N.E. coasts.

Rainfall has been equal to the mean in "Scotland, E." and a little more in the S. and E. of England, but elsewhere considerably less.

Bright sunshine shows a great decrease, the percentages ranging from 34 in "England, S.W." to 18 in "Scotland, E."

Depressions observed.—The distribution of pressure and direction of wind have varied greatly. On the 4th and 5th an area of high pressure was shown over Scandinavia while the barometer was lowest over France, the winds being moderate from between E. and S.S.E.; but on the 6th a depression was shown over the Netherlands, causing the wind to shift to the northward over England. On the 7th and 8th the winds were very variable, some depressions passing from S.W. to N.E. outside our W. and N. coasts on the former day, and a large shallow one lying over England on the latter. During the remainder of the period moderate to fresh westerly or west-north-westerly winds were general, the barometer being highest over the Bay of Biscay and W. of France, and lowest in Scandinavia.

Q 8244. 100.—10/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending October 10, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 4.

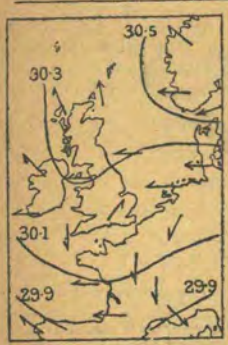
Weather still clear over France, N. Germany, and at some of our stations, but more cloudy on the whole than of late. Fine all day in the E. and S., cloudy and some rain in N.

Temperature risen except in the N. and E. of England; readings ranging from 57° at Valencia to 47° at Liverpool. Rather low all day; maxima ranging from 54° in the N. to 61° at Valencia.

Wind easterly over N. Germany, France, and England, but drawing into S.E. in Ireland and into S. in Scotland. Blowing rather freshly and little change during day.

Sea rough in the S.E. and N.

Barometer rising everywhere—most in Scandinavia. Large area of high pressure (30·7 ins.) lying over Sweden with relatively low pressures in S. France. Barometer inclined to fall in the S. later.



Wednesday, October 5.

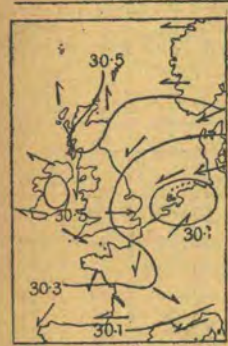
Weather dull in Ireland, fine in nearly all other places. Fine and bright in most places during the day, but slight showers in the E. at night.

Temperature fallen everywhere—quickly in the S.E.—and readings ranging from 53° at Valencia to 38° in London. Rising somewhat during day and maxima varying between 50° and 59°.

Wind easterly over the North Sea, our east coast, and France, but northerly winds reported from the W. of England and southerly winds in Scotland. Blowing strongly over the North Sea. Wind drawing into N. over nearly the whole of England later.

Sea rough all along our east coast.

Barometer falling over N. Germany and the E. of England, rising elsewhere; anticyclone (30·8 ins.) shown over Gulf of Bothnia and pressure lowest in the S.E. of France. Slight general increase occurring later.



Thursday, October 6.

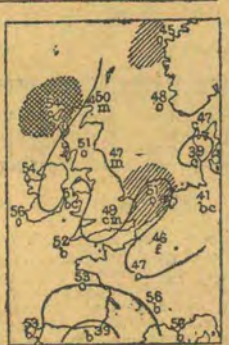
Weather dull and rainy on both shores of the North Sea, but fine and bright on our N.W. and W. coasts and over France. Rain falling all day in the S.E. and E., fair elsewhere.

Temperature risen except in Ireland; readings ranging from 54° at Wick to 34° at Parsonstown and 39° at Hurst Castle. Maxima much the same as on previous day, varying between 50° and 59°.

Wind still southerly in Scotland, easterly in Denmark and N. Germany, and northerly elsewhere. Blowing rather strongly on our S.E. coast. Northerly winds holding all day and continuing strong in the S.E.

Sea again rough along the E. coast and in the Skager Rack.

Barometer risen in nearly all places, but falling in the S.E., and well marked depression advancing towards the S.E. of England from the eastward. Rising again in S.E. later, and depression retreating, but fresh fall appearing in N.W.



Friday, October 7.

Weather cloudy or dull in nearly all places except the N.W. of England; rain falling in Scotland. Dull except on the S.E. coast of England all day and rain very general.

Temperature fallen in the N. and E. of Scotland and England, risen rather quickly elsewhere. Maxima varying as on the previous days between 50° and 60°.

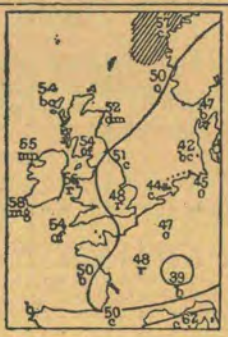
Wind light to strong from S. and S.W. on our western and northern coasts, and over Norway and Sweden, and from N. and N.E. over England, France, and N. Germany. Little change during day.

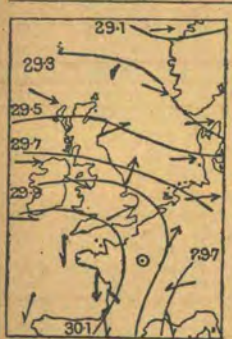
Sea rough in the S.E. and high round the Hebrides.

Barometer fallen briskly in the N., risen elsewhere, and German depression entirely disappeared. Pressure highest in S.W. with large depression in far N. and comparatively low pressures in S. France. General slight fall later.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind. | Cloud, Rain, Sea, and Temperature.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 8.

Weather fine in N. Scotland and in parts of Scandinavia and the S. of France, dull elsewhere, with rain at most of our stations. Dull and rainy in the S. of England all day, but clearing in the N. of that country.

Temperature fallen over the S.E. of England and N. of France, risen elsewhere; readings ranging from 58° in S. Ireland to 46° at Cambridge. Low all day, maxima between 50° and 59°.

Wind variable and generally light or moderate; nor[illegible]ly in Ireland, westerly in the S. of England, and easte[illegible] the N. of that country. Easterly wind extending to most parts of England later.

Sea moderate or slight round our coasts.

Barometer falling everywhere and shallow depression (with readings as high as 30·2 ins.) lying over England. Pressure highest in S. Sweden. Disturbance moving southward later and becoming deeper.

Sunday, October 9.

Weather fine over Ireland and the W. of Scotland, dull and unsettled elsewhere with much rain. Dull in nearly all parts of the country during day and rain general.

Temperature fallen except in France and N. Germany; readings ranging from 55° at Roche's Point to 42° at York and Shields. Low all day, maxima scarcely exceeding 55°.

Wind north-westerly and northerly on nearly all our own and the French coasts, but southerly breezes reported from Stornoway and from the eastern shores of the North Sea. Light to fresh in force. Fresh north-westerly winds holding all day.

Sea moderate to smooth.

Barometer falling everywhere—quickly in the N. and E. Pressure highest off our S.W. coasts with depressions near the Hebrides, over the North Sea, and the Netherlands. Rising in the W. and S.W. later.

Monday, October 10.

Weather fine over France and the S.E. of England, cloudy or dull elsewhere, with rain in the W. Dull and showery all day except in the extreme S.E.

Temperature risen except in the S.E. and over France; readings ranging from 53° in S. Ireland to 42° at Oxford. Maxima uniform between 53° and 59°.

Wind westerly over these Islands and the North Sea, but northerly in France. Blowing strongly or freshly except in the S.E., backing to S.W. in Ireland later, and increasing.

Sea rough N.W.

Barometer rising over England and France, falling elsewhere. Large disturbance over Scandinavia, and area of high pressure holding in the S.W. Fresh and brisk decrease commencing in W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	•	•
Scotland, N.	Sumburgh Head											
	Stornoway	59	38	55·0	44·1	49·6	+0·8	4	1·18	+0·06	26	34
	Wick	59	40	56·3	45·1	50·7	+1·8	7	1·28	+0·60	•	•
Channel Islands	Scilly (St. Mary's)										•	•
	Jersey (Noirmont)	59	42	56·0	46·7	51·4	−5·1	5	0·65	−0·15	34	44

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	36	55·3	42·6	49·0	− 0·1	5	1·25	+0·65	*	*
	Aberdeen	56	36	54·4	44·9	49·7	− 0·1	7	0·47	−0·32	14	18
	Leith	58	37	55·7	42·1	48·9	− 1·1	6	0·23	−0·29	*	*
2. ENGLAND, N.E.	Alnwick Castle	56	37	52·1	44·0	48·1	− 3·2	6	0·41	?	*	*
	Shields	57	38	54·6	43·6	49·1	− 2·5	6	0·51	−0·09	*	*
	Durham	57	36	54·5	40·8	47·7	− 4·1	4	0·67	0·00	23	30
	York	59	38	55·0	42·1	48·6	− 3·8	5	0·68	0·00	20	26
	Spurn Head	55	43	52·6	46·4	49·5	− 2·8	5	0·21	?	*	*
	Brigg‡ ⚑	56	36	53·6	40·8	47·2	− 5·2	4	0·40	?	18	23
3. ENGLAND, E.	Hillington ⚑	56	36	53·6	40·8	47·2	− 6·2	6	0·52	−0·03	18	23
	Yarmouth	54	40	52·7	44·3	48·5	− 5·6	6	0·95	+0·23	*	*
	Geldeston	59	39	53·5	42·3	47·9	− 5·9	7	0·98	+0·47	24	31
	Cambridge	56	35	53·3	39·9	46·6	− 7·4	5	0·42	−0·11	13	17
	Rothamsted	55	33	50·6	39·6	45·1	− 8·7	5	0·54	−0·16	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	57	36	54·6	42·1	48·4	− 4·1	4	0·41	−0·14	*	*
	Nottingham	59	35	55·7	40·9	48·3	− 4·5	6	0·48	−0·22	*	*
	Loughborough	58	36	54·3	42·0	48·2	− 4·4	6	0·41	−0·29	*	*
	Leicester	58	36	53·4	39·8	46·6	− 7·0	4	0·35	−0·28	15	19
	Birmingham (Oscott)	57	36	53·1	40·7	46·9	− 6·5	1	0·48	−0·30	*	*
	Cheadle ⚑	54	37	52·4	40·1	46·3	− 7·0	2	0·32	?	*	*
	Churchstoke ⚑	54	32	52·7	38·3	45·5	− 8·0	5	0·47	?	18	23
	Hereford ⚑	59	32	55·7	40·5	48·1	− 6·4	4	0·32	−0·43	*	*
	Cirencester	57	35	53·6	39·6	46·6	− 8·0	4	0·52	−0·30	16	21
	Oxford	57	35	53·7	40·7	47·2	− 7·3	3	0·38	−0·30	21	27
5. ENGLAND, S.	London†	58	33	53·7	40·4	47·1	− 7·2	5	0·61	−0·04	9	12
	Marlborough	58	30	53·2	38·0	45·6	− 9·9	4	0·42	−0·47	18	23
	Strathfield Turgiss ⚑	58	29	53·8	37·8	45·8	− 8·8	4	0·39	−0·29	*	*
	Dover	57	40	53·9	44·9	49·4	− 5·9	4	1·65	+0·92	*	*
	Hastings (St. Leonard's)	60	35	54·3	41·5	47·9	− 6·5	7	1·78	+1·01	*	*
	Southampton	58	34	55·1	40·3	47·7	− 7·3	3	0·34	?	20	26
	Hurst Castle	58	35	54·7	40·3	47·5	− 7·7	5	0·48	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	57	36	54·5	46·5	50·5	+ 1·3	5	1·70	?	*	*
	Glasgow	56	38	54·4	43·2	48·8	− 1·1	5	0·60	−0·44	10	13
	Ardrossan	57	39	54·7	44·0	49·4	− 1·0	5	0·72	−0·32	*	*
	Silloth (Cumberland)	57	33	55·3	40·4	47·9	− 3·6	4	0·41	−0·53	21	27
	Douglas (Isle of Man)	57	38	55·7	42·2	49·0	− 3·3	3	0·27	−0·61	23	30
7. ENGLAND, N.W.	Barrow-in-Furness	58	41	55·6	44·0	49·8	− 2·6	4	0·35	?	*	*
	Stonyhurst	55	35	52·7	39·9	46·3	− 6·3	4	0·79	−0·63	23	30
	Blackpool ⚑	56	35	54·7	39·4	47·1	− 5·4	5	0·51	−0·60	*	*
	Manchester	54	37	52·6	40·2	46·4	− 6·2	3	0·52	−0·54	*	*
	Liverpool Obsy (Bidston)	58	39	54·7	44·4	49·6	− 3·9	4	0·38	−0·71	*	*
	Llandudno ⚑	58	39	55·2	44·1	49·7	− 3·4	4	0·52	−0·50		
	Holyhead	56	42	54·6	45·6	50·1	− 3·2	4	0·33	−0·75	*	*
8. ENGLAND, S.W.	Pembroke	57	41	55·7	46·1	50·9	− 3·0	5	0·26	−0·78	26	34
	Arlington (N. Devon)	57	31	54·1	39·3	46·7	− 8·6	3	0·65	?	*	*
	Falmouth	58	40	55·8	46·9	51·4	− 4·4	4	0·23	−0·65	30	38
	Plymouth	59	35	56·9	40·6	48·8	− 7·4	4	0·35	−0·65	22	29
	Prawle Point	60	37	57·3	42·4	49·9	− 6·0	3	0·25	?	*	*
9. IRELAND, N.	Londonderry	60	32	57·1	41·9	49·5	− 0·9	4	0·48	−0·57	*	*
	Mullaghmore	58	36	56·3	46·6	51·5	+ 0·2	5	0·48	?	*	*
	Markree Castle	58	29	55·8	41·9	48·9	− 2·0	5	0·43	−0·44	19	25
	Brookeborough	59	29	55·1	40·5	47·8	− 3·2	4	0·40	?	*	*
	Armagh	56	34	54·1	43·4	48·3	− 3·0	5	0·26	−0·54	18	23
	Donaghadee	59	39	56·0	44·7	50·4	− 0·6	6	0·45	?	*	*
10. IRELAND, S.	Dublin	57	36	54·9	43·1	49·0	− 3·6	4	0·32	−0·36	26	34
	Parsonstown	58	32	56·7	41·7	49·2	− 2·4	3	0·18	−0·66	22	29
	Waterford	60	36	57·7	42·9	50·3	− 2·7	5	0·16	−0·85	*	*
	Roche's Point	61	42	58·3	48·3	53·3	+ 0·3	3	0·10	−1·01	*	*
	Valencia	61	50	58·9	51·7	55·3	+ 2·4	5	0·45	−1·04	18	23
	Foynes	61	39	57·1	47·4	52·3	− 0·2	4	0·40	?	*	*

Stations marked ⚑ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 41.] WEEK ENDING MONDAY, OCTOBER 17, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857–69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	59	28	50	38	44	4 below.	3	17	11 more.	34	47
	2. ENGLAND, N.E.	63	27	52	38	45	5 below.	3	10	3 more.	37	50
	3. ENGLAND, E.	62	24	54	39	47	6 below.	4	9	3 more.	31	41
	4. MID. COUNTIES	62	26	54	39	46	6 below.	4	11	4 more.	31	42
	5. ENGLAND, S.	63	23	56	41	48	5 below.	3	4	4 less.	33	45
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	58	28	52	39	45	3 below.	4	17	7 more.	30	40
	7. ENGLAND, N.W.	59	29	53	42	48	4 below.	4	18	6 more.	33	45
	8. ENGLAND, S.W.	61	32	55	45	50	4 below.	3	8	2 less.	26	35
	9. IRELAND, N.	58	25	53	40	46	3 below.	5	16	7 more.	26	36
	10. IRELAND, S.	60	27	55	43	49	2 below.	4	10	1 less.	29	39

General Remarks.

Weather has been very changeable. During the first part of the period it was very unsettled with heavy rain or showers of hail, and on the 14th exceedingly rough and boisterous. Towards the close, however, it became generally quieter, brighter, and drier.

Temperature has been below the mean in all districts, as much as 5° or 6° over the greater part of England. The maxima were registered on the 11th and varied in most districts from 60° to 63°, while the minima, which occurred either on the 16th or 17th, were as low as 23° at Strathfield Turgiss, 24° at Rothamsted, and 25° at Markree.

Rainfall has been rather less than the mean in the S. and S.W. of England and S. of Ireland, but more elsewhere; in the N.W. and extreme N.E. the excess was very marked.

Bright sunshine has been more prevalent than that of last week, the percentages ranging from 50 in "England, N.E." to 36 in "Ireland, N." and 35 in "England, S.W."

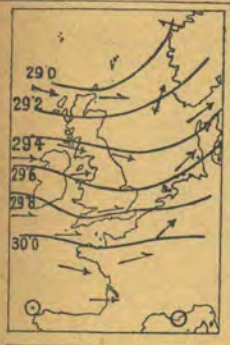
Depressions observed.—During this period two deep depressions have passed across our Islands from the westward; the first was shown off the N. of Scotland on the 11th, and, travelling north-eastwards, passed away over Scandinavia on the 13th. During its progress it gave us strong westerly, veering to N.W., winds or gales on nearly all our coasts. The second, and more serious one, gave signs of its approach during the 13th, and at 8 A.M. on the 14th lay over the N. of England and S. of Scotland; it moved very quickly in an east-north-easterly direction and disappeared over the Baltic on the 17th. This depression caused exceedingly violent gales on the 14th in all parts of the Kingdom,—from N.E. in Scotland, from N.W. in Ireland, and from S.W. to N.W. in England. On the following day the wind had shifted to N.W. everywhere, and, though less strong in most places, still blew a gale in Scotland. At the close of the period the barometer was again falling along our western coasts with strong southerly and south-easterly winds or fresh gales.

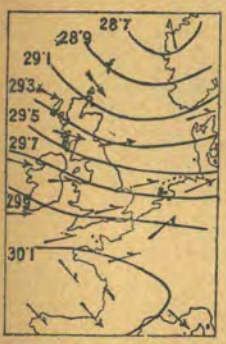
Q 8320. 100.—10/81. W. 230. E. & S.

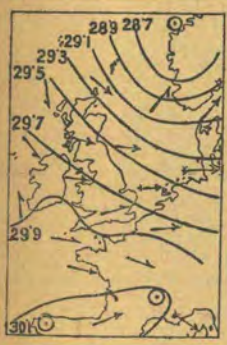
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 17, 1881.

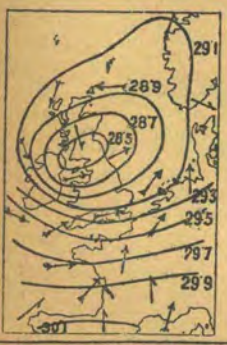
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 11.

Weather fine in parts of Scotland, cloudy or dull in all other places, with rain over the Channel and N.W. of France. Showers occurring in nearly all places during the day.

Temperature risen quickly; readings ranging from 58° at Falmouth, to 51° at Nairn. Maxima during day varying between 53° in the N. of Scotland to 63° at Nottingham.

Wind westerly on all our own and the French coasts, but drawing into S.W. and S.; blowing strongly in most places, and reaching the force of a gale at several ports. Strong westerly winds or gales all day,

Sea rough on our N.W., W., and S. coasts.

Barometer falling everywhere, large depression shown to the northward of these Islands. Mercury rising somewhat during the day, and depression moving away. Readings highest off our S.W. coasts.

Wednesday, October 12.

Weather fine at several of our E. coast stations, dull and rainy elsewhere, with hail in N. Scotland. Continuing fine all day on our E. coast, and dull and showery elsewhere.

Temperature fallen everywhere,—very considerably in the N.E.,—readings ranging from 55° in the S.W. to 40° at Nairn. Low all day, maxima varying from 45° in N. Scotland to 61° at Nottingham.

Wind little changed, still westerly on our coasts and over the North Sea, and southerly in Scandinavia. Decreasing in force but still fresh to strong westerly and west-north-westerly winds all day.

Sea rough except on our E. coasts.

Barometer rising over these Islands and France, falling to the eastward of the North Sea. Area of high pressure shown over France, and large depression lying near Christiansund. Mercury falling slightly in the S., and rising in the N. later.

Thursday, October 13.

Weather fine over the greater part of England and Scotland, dull and showery elsewhere. Heavy rain setting in all over the country in the afternoon and evening.

Temperature fallen nearly everywhere; readings ranging from 52° in the S.W. to 39° at Nairn. Maxima varying from 45° in the N. to 59° in the S.

Wind light from S.E. at Valencia, moderate to strong from N.W. and W. on our other coasts, and reaching a gale from W. in N. Germany. Wind veering to S.W. and W. in Ireland later and rising to a gale.

Sea rough in the N.W. and N. and on the Norwegian coasts.

Barometer beginning to fall at Valencia, but rising in all other parts of these Islands. Very large depression (28·7 in.) shown over Norway, with anticyclone (30·2 in.) over N. Spain. Rapid decrease of pressure occurring in Ireland later and exceedingly deep depression appearing.

Friday, October 14.

Weather clearing somewhat in W., but dull, rainy, and very unsettled elsewhere. Sky clearing quickly in W. and S. later, but remaining overcast with hail and rain showers in the N. and N.E. Very rough all day.

Temperature risen generally, and ranging from 41° at Wick to 58° on the S.E. coast of England. Maxima again varying between 44° in the N. and 58° in the S.

Wind blowing a heavy gale all round our coasts; from N.E. in Scotland, from N.W. in Ireland, and from W. to S.W. in England. Shifting to N.W. and N. generally later, and at Holyhead reaching between 2–3 P.M. a force, which was at one time equal to 91 miles and at another to 144 miles per hour.

Sea very rough.

Barometer fallen more than an inch in S. Scotland, and rapidly everywhere; deep depression shown over S. Scotland. Disturbance passing eastward later, and rapid recovery occurring.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 15.

Weather fine generally but hail and sleet showers occurring in the N.W. of Scotland. Fine during day in most districts, but showers occurring in W.

Temperature fallen very quickly—more than 15° in the E.—and readings ranging from 49° at Valencia to 35° in the N.E. Maxima low, not reaching 55° at any station.

Wind north-westerly and westerly on all our coasts—blowing a gale in N. Scotland and freshly or strongly generally. Northerly winds strong to a gale in force blowing all day.

Sea generally rough, except off the W. of England.

Barometer fallen fast in Sweden and Denmark, risen very rapidly over these Islands. Readings as low as 28·6 at the Scaw and as high as 30·2 ins. at Valencia. Pressure increasing all day.

Sunday, October 16.

Weather locally cloudy in the S. of Ireland, but very fine and bright generally. Rain commencing at Valencia in the evening, but weather remaining fine in all other places.

Temperature fallen everywhere, and readings low, ranging from 47° at Valencia to 34° over central England and at Nairn. Maxima rather higher than on 15th, exceeding 55° in S. Ireland.

Wind still strong from N.W. and N. on both shores of the North Sea, but light variable breezes prevailing elsewhere. Strong south-easterly winds springing up in Ireland later.

Sea rough in the N.E.

Barometer beginning to fall again at Valencia, but still rising quickly in all other places. Large area of high pressure lying over these Islands and France. Decrease in W. Ireland becoming brisk in evening.

Monday, October 17.

Weather cloudy or dull on our W. and N. coasts, but fine and bright in most other districts. Dense fog prevailing in London. Slight rain falling in N. Scotland later, and sky remaining dull in W. and N., but fine elsewhere.

Temperature risen very fast in the W. and N., fallen briskly in S.E.; readings ranging from 56° at Valencia to 29° at Oxford, The maxima varying between 57° in Ireland to about 50° in Scotland.

Wind light and variable in the south-eastern districts, moderate from E. in France, and strong from S.E. to S. in the W. and N. Gale blowing at Valencia and Stornoway all day.

Sea very rough off the S.W. of Ireland and rough at Stornoway.

Barometer falling briskly in Ireland and Scotland, rising over Scandinavia and the south-eastern stations. Anticyclone shown in the S.E. with large area of low pressure off our W. coasts. Falling everywhere during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head										*	*
	Stornoway	54	30	48·0	36·9	42·5	−4·7	7	1·46	+0·34	23	32
	Wick	53	34	46·9	37·7	42·3	−5·2	6	1·20	+0·50	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	60	43	57·0	48·9	53·0	−2·0	4	0·58	−0·25	38	51

The abo… in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	55	34	46·7	38·1	42·4	− 5·1	7	1·47	+0·88	*	*
	Aberdeen	59	28	49·4	36·9	43·2	− 4·8	3	2·44	+1·69	34	47
	Leith	59	31	52·4	37·9	45·2	− 2·8	4	1·13	+0·66	*	*
2. ENGLAND, N.E.	Alnwick Castle	57	29	49·4	37·4	43·4	− 6·4	4	1·21	?	*	*
	Shields	58	32	51·6	38·6	45·1	− 4·9	4	1·15	+0·57	*	*
	Durham	60	27	51·7	35·9	43·9	− 6·1	4	1·00	+0·30	40	55
	York	63	30	54·4	38·7	46·6	− 4·1	4	0·97	+0·28	36	4[illegible]
	Spurn Head	58	34	52·7	41·4	47·1	− 3·5	1	0·46	?	*	*
	Brigg‡ 𝔐	62	27	54·3	36·6	45·5	− 5·2	3	0·88	?	34	46
3. ENGLAND, E.	Hillington 𝔐	61	25	53·7	38·1	45·9	− 5·9	2	0·82	+0·28	23	31
	Yarmouth	60	34	53·3	40·6	47·0	− 5·0	5	0·96	+0·31	*	*
	Geldeston	60	30	54·0	40·6	47·3	− 4·8	4	0·84	+0·32	37	50
	Cambridge	62	27	55·7	37·9	46·8	− 5·3	3	0·68	+0·18	32	43
	Rothamsted	57	24	52·8	38·1	45·5	− 6·6	6	0·93	+0·24	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	58	28	53·4	36·4	44·9	− 6·0	4	0·96	+0·30	*	*
	Nottingham	62	27	55·1	36·6	45·9	− 5·3	2	1·15	+0·45	*	*
	Loughborough	61	27	54·5	39·4	47·0	− 3·5	4	1·31	+0·61	*	*
	Leicester	61	27	54·7	40·0	47·4	− 4·4	4	1·17	+0·57	28	38
	Birmingham (Oscott)										*	*
	Cheadle 𝔐	58	29	50·4	37·9	44·2	− 7·2	4	1·55	?	*	*
	Churchstoke 𝔐	60	29	52·9	38·9	45·9	− 6·1	5	1·42	?	29	39
	Hereford 𝔐	61	26	53·3	39·8	46·6	− 6·4	3	0·61	−0·19	*	*
	Cirencester	58	26	53·3	39·1	46·2	− 6·8	2	0·81	+0·02	? 30	? 41
	Oxford	59	27	55·1	39·1	47·1	− 5·8	4	0·57	−0·08	36	49
5. ENGLAND, S.	London†	62	27	55·7	39·4	47·6	− 5·2	3	0·49	−0·16	26	35
	Marlborough 𝔐	58	25	54·1	37·6	45·9	− 6·9	3	0·35	−0·48	36	48
	Strathfield Turgiss 𝔐	63	23	56·2	37·8	47·0	− 5·9	2	0·36	−0·29	*	*
	Dover	59	36	54·6	42·6	48·6	− 4·9	3	0·31	−0·42	*	*
	Hastings (St. Leonard's)	58	33	54·8	42·3	48·6	− 5·3	3	0·31	−0·44	*	*
	Southampton	62	29	56·8	41·3	49·1	− 4·4	4	0·48	?	38	51
	Hurst Castle	61	34	56·0	43·0	49·5	− 4·0	3	0·12	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	55	30	49·3	39·4	44·4	− 2·6	5	1·90	?	*	*
	Glasgow	57	30	51·0	36·2	43·6	− 3·4	4	1·67	+0·69	29	38
	Ardrossan	58	29	52·4	39·4	45·9	− 3·0	4	1·26	+0·22	*	*
	Silloth (Cumberland)	58	28	53·0	38·9	46·0	− 3·9	4	1·66	+0·72	31	42
	Douglas (Isle of Man)	57	30	52·7	41·9	47·3	− 3·5	4	2·04	+1·09	29	39
7. ENGLAND, N.W.	Barrow-in-Furness	58	36	53·7	42·9	48·3	− 2·7	4	1·63	?	*	*
	Stonyhurst	57	29	51·7	39·2	45·5	− 5·4	4	2·41	+0·99	37	50
	Blackpool 𝔐	58	29	52·7	40·8	46·8	− 4·2	4	1·66	+0·53	*	*
	Manchester	57	29	51·7	38·2	45·0	− 6·0	4	2·49	+1·44	*	*
	Liverpool Obs' (Bidston)	59	34	52·7	42·6	47·7	− 4·3	5	1·53	+0·46	*	*
	Llandudno 𝔐	59	38	55·1	44·5	49·8	− 2·1	5	1·47	+0·42	29	39
	Holyhead	58	41	53·6	45·7	49·7	− 2·2	5	1·04	−0·15	*	*
8. ENGLAND, S.W.	Pembroke	59	43	54·1	47·0	50·6	− 2·2	3	1·07	+0·02	18	24
	Arlington (N. Devon)	57	32	53·6	43·1	48·4	− 5·5	5	1·46	?	*	*
	Falmouth	60	42	55·4	48·7	52·1	− 2·8	3	0·60	−0·35	33	44
	Plymouth	61	34	56·8	42·4	49·6	− 5·2	3	0·27	−0·68	27	36
	Prawle Point	61	36	55·9	45·0	50·5	− 4·1	3	0·40	?	*	*
9. IRELAND, N.	Londonderry	58	31	52·1	33·3	45·2	− 3·9	6	2·57	+1·47	*	*
	Mullaghmore	58	32	54·4	42·7	48·6	− 1·2	4	1·56	?	*	*
	Markree Castle	58	25	53·3	39·5	46·4	− 3·3	4	1·59	+0·70	22	30
	Brookeborough	57	26	52·2	37·5	44·9	− 4·6	4	1·95	?	*	*
	Armagh	57	31	52·4	39·7	46·1	− 3·9	5	1·06	+0·25	30	41
	Donaghadee	58	36	52·6	41·6	47·1	− 2·4	5	0·80	?	*	*
10. IRELAND, S.	Dublin	58	31	54·3	40·9	47·6	− 3·9	4	0·68	−0·02	39	53
	Parsonstown	58	27	53·7	40·1	46·9	− 3·5	2	0·94	+0·10	30	41
	Waterford										*	*
	Roche's Point	60	33	55·7	42·7	49·2	− 2·6	3	0·79	−0·29	*	*
	Valencia	60	37	57·0	47·0	52·0	+ 0·2	5	1·01	−0·59	17	23
	Foynes	59	31	54·8	43·7	49·3	− 1·8	4	1·35	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 42.] WEEK ENDING MONDAY, OCTOBER 24, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes..

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	56	34	50	42	46	1 below.	5	3	3 less.	9	13
	2. ENGLAND, N.E.	54	29	49	43	46	3 below.	5	9	2 more.	14	21
	3. ENGLAND, E.	54	28	49	41	45	5 below.	4	9	3 more.	20	28
	4. MID. COUNTIES	56	28	50	40	45	5 below.	4	10	4 more.	24	34
	5. ENGLAND, S.	63	27	52	43	48	4 below.	4	9	2 more.	24	33
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	57	33	51	44	48	0 (average).	1	1	8 less.	15	21
	7. ENGLAND, N.W.	59	35	50	43	46	4 below.	3	5	6 less.	24	34
	8. ENGLAND, S.W.	61	39	54	48	51	2 below.	5	13	3 more.	25	35
	9. IRELAND, N.	59	39	52	45	48	0 (average).	4	6	3 less.	19	28
	10. IRELAND, S.	59	41	54	48	51	1 above.	5	19	8 more.	9	13

General Remarks.

Weather has been dull and rough everywhere, but the amount of rain has varied greatly in different parts of the Kingdom; in Scotland, the N.W. of England, and N. of Ireland but little rain was measured, but elsewhere the fall was heavy.

Temperature has again been below the mean generally, but in "Ireland, S." it was a little above, and in "Ireland, N." and "Scotland, W." equal to the mean value. In the eastern and central parts of England the deficit was as much as 5°. The highest reading (63°) was recorded at Southampton on the 23rd, and the lowest (27°) at Strathfield Turgiss on the 18th.

Rainfall has been less than the mean in Scotland, "Ireland, N.," and "England, N.W.," but more elsewhere.

Bright sunshine shows a great decrease nearly everywhere, the percentages varying from 35 in "England, S.W." and 34 over central and north-western England, to 13 both in "Scotland, E." and "Ireland, S."

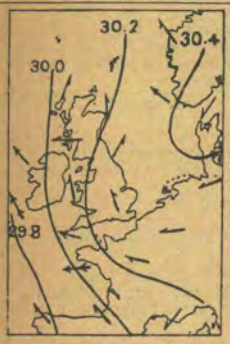
Depressions observed.—During the whole of this period a large area of high pressure has existed over Scandinavia, and a large and gradually deepening depression off our S.W. coasts. The winds have consequently been between S.E. and E. over these Islands, blowing strongly generally and at times increasing to a fresh or strong gale.

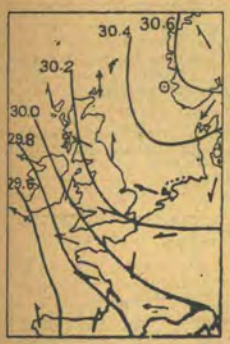
Q 8400. 100.—10/81. Wt. 230. E. & S.

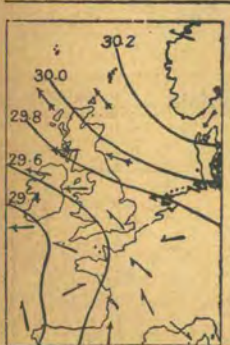
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 24, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, October 18.

Weather fine over France, N. Germany, and the greater part of these Islands, but cloudy in the extreme W., and foggy over central England. Fine all day except in extreme W., slight rain at Valencia.

Temperature risen E. fallen W.; readings ranging from 54° at Valencia, to 32° at Oxford. Maxima uniform, varying between 50° at Wick and 59° at Holyhead.

Wind easterly over France, south-easterly and southerly on our coasts,—blowing a gale over the Bay of Biscay and the S. of Ireland, moderate elsewhere. Gale in Ireland holding all day, wind drawing more into E.

Sea high and rough in the S.W.

Barometer rising rapidly in the N. of Scandinavia, falling elsewhere. Anticyclone forming over the Gulf of Bothnia, and large depression shown off the N.W. of Spain. Pressure giving way over these Islands all day.

Wednesday, October 19.

Weather still fine over France and a large part of England, cloudy over Ireland and Scotland. Slight rain falling in N. and W. later, but sky clear in S.E.

Temperature risen in the N.E. and E., fallen in most other districts; readings ranging from 54° at Valencia, to 40° over central England. Maxima low, varying between 48° and 55°.

Wind easterly over France and our more southern stations, but drawing into S.E. in the N.W. and into S. in the N. Blowing strongly generally, and reaching a gale in the S.W., W., and N. Gale increasing and extending later.

Sea rough in the S., W., and N.E., and high at Valencia.

Barometer rising over Scandinavia and the N. of Scotland, falling elsewhere,—most in S. Ireland. Anticyclone over Gulf of Bothnia (30·7 ins.), with depression (29·6 ins.) off S. coast of Ireland. Pressure decreasing during day, except Scotland.

Thursday, October 20.

Weather fine over the E. of England, cloudy or dull elsewhere, with rain in some places. Fine in the S.E. all day, but rain falling in several parts of the country.

Temperature risen in the E. of England and over France, fallen in the W.; ranging from 50° in the S.W. to 43° at Nairn. Maxima again uniform, varying between 47° and 54°.

Wind easterly or south-easterly on nearly all coasts; blowing strongly on most coasts and reaching a gale in the S.W. and W. Easterly or east-south-easterly strong winds or gales blowing all day.

Sea high in the N.E. and S.W., rough generally.

Barometer falling except in the extreme N. of Scandinavia. Anticyclone (30·7 ins.) still shown there, and very large depression lying off our S.W. coasts. Pressure decreasing all day.

Friday, October 21.

Weather fine in the W. of France and over Denmark, dull in nearly all other places, with rain or mist in several parts. Dull all day with heavy rain at many stations.

Temperature inclined to rise, except on our N.E. coasts and the countries to the eastward of the North Sea; readings ranging from 54° at Falmouth to 44° over central England. Maxima again low, varying between 46° and 56°.

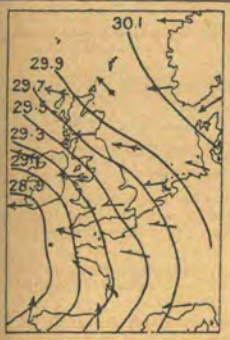
Wind south-westerly over France, easterly or east-south-easterly over the North Sea and nearly all our coasts. Blowing a gale in the E. and N. Gale holding all day, little change in direction.

Sea high on our E. and N. coasts, rough in the S.W.

Barometer rising in the N.W. of France and S.W. of England, falling elsewhere. Little change in general distribution, depression still lying off our S.W. coasts. Pressure giving way all day.

Synoptic Weather Charts.—8 a.m.

Barometer and Wind.	Cloud, Rain, Sea, and Temperature.	Weather during the 24 hours succeeding the date of the Charts.



Saturday, October 22.

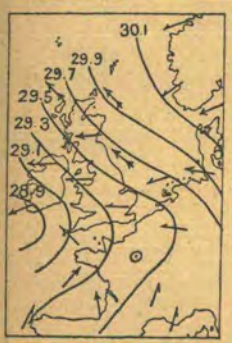
Weather very rough and unsettled, cloudy or dull in nearly all places with rain at many stations. Dull and squally all day with heavy rain very generally.

Temperature risen in the S., fallen in the N.; readings ranging from 56° in the S.W. to 41° at Nairn. Hardly any change during day and maxima low.

Wind south-easterly to easterly over nearly the whole of western Europe, blowing strongly or with the force of a gale all round our coasts. Gales prevailing all day except over the Channel.

Sea exceedingly high on our N.E. coasts and very rough generally.

Barometer falling everywhere—quickly in S.W.—and depression off our S.W. coasts becoming very deep. Pressure giving way all day, and barometer at Valencia at 6 P.M. as low as 28·78 ins.



Sunday, October 23.

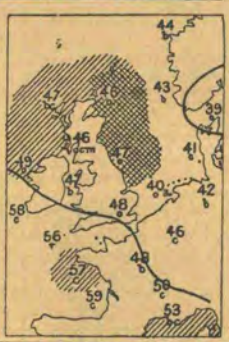
Weather still very dull and unsettled, and heavy rain falling all over the eastern and central parts of England. Dull all day with occasional rain.

Temperature risen a little, ranging from 57° at Falmouth to 45° at Nairn. Maxima higher than of late, varying between 59° in the S.W. and 47° in the N.E.

Wind southerly over France and the Channel, easterly to south-easterly over the North Sea and the more northern and western parts of the United Kingdom. Blowing a gale except in the S. and W. Little change later.

Sea exceedingly high in the N.E. and rough generally.

Barometer falling over Scandinavia, rising over these Islands and France, and depression in S.W. apparently filling up. Increase continuing all day, briskly in S.W.



Monday, October 24.

Weather inclined to improve somewhat, but still dull in most parts of the country, except the W. of Scotland. Cloudy or dull all day and slight rain falling in several places.

Temperature fallen a few degrees generally; readings ranging from 58° at Valencia to 42° at Nairn. Scarcely any change during day.

Wind westerly in France, easterly on the eastern shores of the North Sea, and over nearly the whole of these Islands. Still blowing strongly, except in the south. Southerly wind appearing at Falmouth later, but easterly winds holding elsewhere.

Sea exceedingly high in the E. and N.E.; rough in the N.W. and S.W.

Barometer rising except in the N. of Scandinavia. Area of highest pressure still shown over Sweden, and depression in S.W. filling up. Mercury rising steadily all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟫⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.	*	*
Scotland, N.	Sumburgh Head										*	*
	Stornoway	56	40	51·0	43·3	47·2	+1·2	1	0·05	−1·05	26	39
	Wick	54	30	49·7	40·1	44·9	−1·1	4	0·25	−0·46	*	*
Channel Islands	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)										30	42

The above observations made in "Scotland N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	54	38	48·3	41·7	45·0	− 1·0	2	0·06	−0 48	*	*
	Aberdeen	53	39	49·3	43·6	46·5	0·0	6	0·43	−0·27	9	13
	Leith	56	34	51·0	40·7	45·9	− 0·4	6	0·38	−0·07	*	*
2. ENGLAND, N.E.	Alnwick Castle	49	39	47·7	43·6	45·7	− 2·6	6	0·79	?	*	*
	Shields	53	35	49·4	43·1	46·3	− 2·2	6	1·00	+0·42	*	*
	Durham	52	29	48·8	40·6	44·7	− 3·7	6	1·61	+0·92	11	16
	York	54	34	49·1	40·9	45·0	− 3·7	5	0·86	+0·23	13	19
	Spurn Head	50	40	48·7	44·6	46·7	− 2·3	4	0·51	?	*	*
	Brigg‡ ℳ	53	40	48·8	42·4	45·6	− 3·5	4	0·34	?	19	27
3. ENGLAND, E.	Hillington ℳ	54	32	49·2	39·9	44·6	− 5·4	4	0·48	−0·05	17	24
	Yarmouth	50	35	48·7	43·6	46·2	− 3·8	4	0·38	−0·13	*	*
	Geldeston	53	30	49·3	43·2	46·3	− 3·8	4	0·65	+0·13	19	27
	Cambridge	54	28	50·4	38·7	44·6	− 5·5	4	1·30	+0·85	24	34
	Rothamsted	52	28	48·7	40·2	44·5	− 6·1	5	1·47	+0·86	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	29	49·9	40·1	45·0	− 4·0	5	0·69	+0·06	*	*
	Nottingham	56	32	49·7	40·4	45·1	− 4·4	6	1·44	+0·83	*	*
	Loughborough	55	32	49·7	40·8	45·3	− 3·4	5	1·08	+0·43	*	*
	Leicester	54	36	49·7	42·1	45·9	− 4·1	5	1·20	+0·65	23	33
	Birmingham (Oscott)	52	34	48·3	39·6	44·0	− 6·0	4	1·37	+0·63	*	*
	Cheadle ℳ	51	35	47·5	39·7	43·6	− 6·4	5	1·34	?	*	*
	Churchstoke ℳ	51	35	47·7	40·2	44·0	− 6·3	2	1·08	?	23	33
	Hereford ℳ	55	32	50·7	39·9	45·3	− 5·8	4	0·89	+0·14	*	*
	Cirencester	54	32	50·1	38·9	44·5	− 6·7	5	0·71	−0·04	25	35
	Oxford	54	28	51·3	39·1	45·2	− 5·8	3	0·61	−0·01	24	34
5. ENGLAND, S.	London†	55	33	52·1	41·4	46·8	− 4·2	4	1·76	+1·16	22	31
	Marlborough ℳ	56	31	49·6	40·2	44·9	− 6·1	4	0·48	−0·29	24	34
	Strathfield Turgiss ℳ	56	27	51·6	39·7	45·7	− 5·3	4	0·95	+0·33	*	*
	Dover	53	37	50·9	44·6	47·8	− 4·0	5	0·85	+0·09	*	*
	Hastings (St. Leonard's)	56	43	51·9	46·4	49·2	− 2·9	4	0·60	−0·15	*	*
	Southampton	63	37	53·9	43·6	48·8	− 2·7	4	0·68	?	25	35
	Hurst Castle	59	42	53·1	45·7	49·4	− 2·8	5	0·84	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	57	42	51·7	45·5	48·6	+ 1·7	0	—	?	*	*
	Glasgow	54	41	49·6	42·9	46·3	− 0·5	2	0·05	−0·87	11	16
	Ardrossan	55	42	51·1	43·1	47·1	− 0·4	1	0·01	−1·01	*	*
	Silloth (Cumberland)	57	33	50·6	42·5	46·6	− 1·9	2	0·10	−0·80	18	26
	Douglas (Isle of Man)	54	45	51·6	46·1	48·9	− 0·1	2	0·49	−0·51	15	21
7. ENGLAND, N.W.	Barrow-in-Furness	52	40	49·9	43·6	46·8	− 2·7	4	0·38	?	*	*
	Stonyhurst	51	38	48·7	42·4	45·6	− 3·7	3	0·96	−0·44	24	34
	Blackpool ℳ	52	35	49·5	41·3	45·4	− 4·0	3	0·36	−0·74	*	*
	Manchester	53	37	48·9	41·6	45·3	− 4·2	4	0·16	−0·86	*	*
	Liverpool Obs'y (Bidston)	59	36	50·1	42·3	46·2	− 4·1	4	1·08	+0·10	*	*
	Llandudno ℳ	57	39	50·5	43·3	46·9	− 3·6	2	0·14	−0·87	23	33
	Holyhead	59	43	52·4	44·4	48·4	− 2·0	3	0·55	−0·65	*	*
8. ENGLAND, S.W.	Pembroke	58	44	53·0	47·0	50·0	− 1·4	5	0·74	+0·28	16	23
	Arlington (N. Devon)	59	39	52·7	42·9	47·8	− 4·2	5	1·45	?	*	*
	Falmouth	60	48	55·3	51·3	53·3	− 0·2	5	1·65	+0·63	29	41
	Plymouth	61	43	56·3	48·1	52·2	− 0·8	5	1·47	+0·57	30	42
	Prawle Point	58	44	54·7	48·7	51·7	− 1·7	5	1·10	?	*	*
9. IRELAND, N.	Londonderry	59	39	51·7	43·8	47·8	− 0·2	5	0·68	−0·74	*	*
	Mullaghmore	58	45	52·1	46·3	49·2	+ 1·2	3	0·44	?	*	*
	Markree Castle	57	41	52·2	43·9	48·1	+ 0·1	3	0·18	−0·69	18	26
	Brookeborough	57	43	50·8	44·5	47·7	− 0·6	2	0·68	?	*	*
	Armagh	54	43	50·3	44·9	47·6	− 0·9	5	0·74	−0·06	20	29
	Donaghadee	54	45	52·1	46·1	49·1	+ 1·0	5	0·72	?	*	*
10. IRELAND, S.	Dublin	55	46	52·0	47·4	49·7	− 0·3	5	1·69	+0·98	14	20
	Parsonstown	58	41	53·1	45·3	49·2	+ 0·3	4	0·78	−0·01	7	10
	Waterford	59	45	53·9	48·1	51·0	+ 0·6	5	2·03	+1·00	*	*
	Roche's Point	59	46	56·9	49·7	53·3	+ 3·0	6	3·60	+2·54	*	*
	Valencia	59	47	56·6	50·4	53·5	+ 3·2	7	1·31	−0·27	7	10
	Foynes	57	45	52·8	47·1	50·0	+ 0·5	4	1·74	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 43.] WEEK ENDING MONDAY, OCTOBER 31, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	50	27	45	37	41	4 below.	4	2	4 less.	15	23
	2. ENGLAND, N.E.	49	22	45	35	40	6 below.	5	4	3 less.	15	23
	3. ENGLAND, E.	51	25	47	35	41	7 below.	6	5	1 less.	25	37
	4. MID. COUNTIES	51	23	46	35	40	8 below.	3	1	5 less.	21	31
	5. ENGLAND, S.	53	21	47	36	41	8 below.	2	3	4 less.	28	41
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	51	21	46	36	41	6 below.	2	2	9 less.	15	22
	7. ENGLAND, N.W.	55	26	46	36	41	7 below.	1	1	9 less.	16	23
	8. ENGLAND, S.W.	55	27	48	38	43	8 below.	1	4	6 less.	34	49
	9. IRELAND, N.	52	20	47	36	42	5 below.	2	8	2 less.	18	26
	10. IRELAND, S.	56	24	49	38	43	5 below.	2	11	0 (average).	20	30

General Remarks.

Weather over the greater part of our Islands has been cloudy but dry. Towards the latter part of the period, however, some frequent showers of hail, snow, or cold rain were experienced.

Temperature has been much below the mean in all districts, the deficit ranging from 4° in "Scotland, E." to 7° or 8° over England. The maxima, which occurred on the 25th, were 49° on our N.E. coasts, 51° over central England, and 55° or 56° in the extreme western and south-western parts of the Kingdom. The minima, which were registered on the 31st, were very low, varying from 20° over central Ireland and 21° at Marlborough and Silloth, to 27° at Leith and Arlington (N. Devon).

Rainfall has been less than the mean in all districts except "Ireland, S."; in the N.W. the deficit was very striking.

Bright sunshine shows an increase in most places; the percentage being greatest (49) in "England, S.W.," and least (22) in "Scotland, W."

Depressions observed.—During the greater part of this period an area of high pressure has existed over Scandinavia, and one of comparatively low readings over France and the Bay of Biscay, so that moderate or fresh winds, generally between N.E. and S.E., have been prevalent. On the 30th, however, the barometer was highest over Ireland, and on the day following over southern and central England. Westerly breezes consequently sprang up over Scotland and southerly winds in Ireland, and the latter, though at first moderate, quickly increased to a strong gale with a rapidly falling barometer.

Q 8486. 100.—11/81. Wt. 230. E. & S.

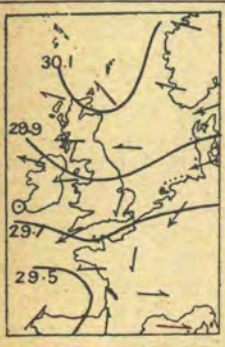
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending October 31, 1881.

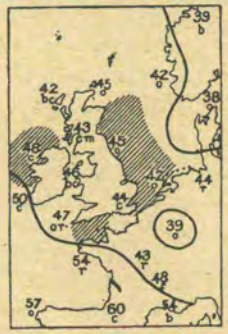
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.





Tuesday, October 25.

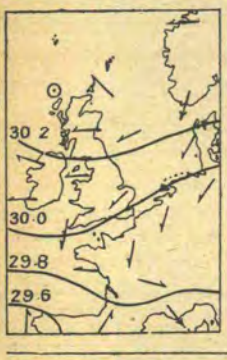
Weather fine over the greater part of England, cloudy or dull elsewhere, with rain at some French stations and at Roche's Point. Cloudy most of the day with showers of rain in the E.

Temperature fallen everywhere; readings ranging from 50° at Valencia to 39° at Nairn and 40° at Oxford. Maxima low, varying between 45° and 55°.

Wind southerly in the S.W. of France, but easterly in all other places; blowing freshly on our E. coast, but generally light or moderate in force. Backing to N.E. on our S.E. coasts in the evening and increasing.

Sea rough in the E. and N.W.

Barometer fallen in the eastern shores of the North Sea and over France, rising elsewhere. Pressure highest in the N. of Scandinavia, lowest over France. Pressure increasing all day but distribution not changing.



Wednesday, October 26.

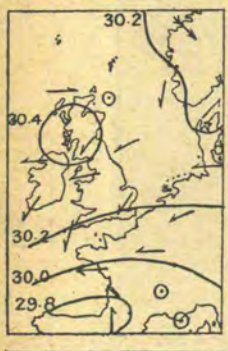
Weather cloudy or dull except in the S. of England and N.W. of France. Slight showers occurring in the E. and N. during day, but at times sky almost clear over the E. of England.

Temperature fallen generally, most in the W. of France, and readings ranging from 48° at Valencia, and 47° at Dover to 40° at Nairn. Maxima not exceeding 50°, except in the extreme S.W. and S.

Wind N.E. over the North Sea and over E. coasts, easterly elsewhere; blowing strongly in the S.E. Moderate to fresh E. (S.E.–N.E.) winds prevailing all day.

Sea rough on our E. coast and in the Skager Rack.

Barometer rising everywhere; high and uniform over the northern parts of the Kingdom and Scandinavia, low over the N. of Spain. No change of importance later.



Thursday, October 27.

Weather fine in the N.W. of France and on our own north-western coasts, but cloudy or dull elsewhere, with fog or mist in several places, and showers at Spurn Head. Cloudy or dull in most places all day, with rain in the N. and E.

Temperature fallen some degrees generally; readings ranging from 45° in S. Ireland to 39° at Aberdeen. Maxima low, only reaching 50° in London, at Wick, and in S. Ireland.

Wind light from W. in Scotland, fresh to moderate from N.E. to E. over England, Ireland, and France. Drawing more into N. later, but little other change.

Sea rough at the mouth of the Humber and at Prawle Point.

Barometer falling in Scandinavia and in the S.W. of France, depressions shown over Norway and the N. of Spain, with area of high pressure over Scotland. Mercury falling slightly during day, except in the S.

Friday, October 28.

Weather cloudy or dull in nearly all places with rain and snow over the Baltic. Showers of rain at Aberdeen. Cloudy and showery in most places during day, but fair and bright in the S.E.

Temperature risen in Scotland and the W. of England, fallen elsewhere; readings ranging from 47° at Holyhead to 38° at Stornoway. Not much change later, and maxima below 50° except in the extreme S.W. and S.

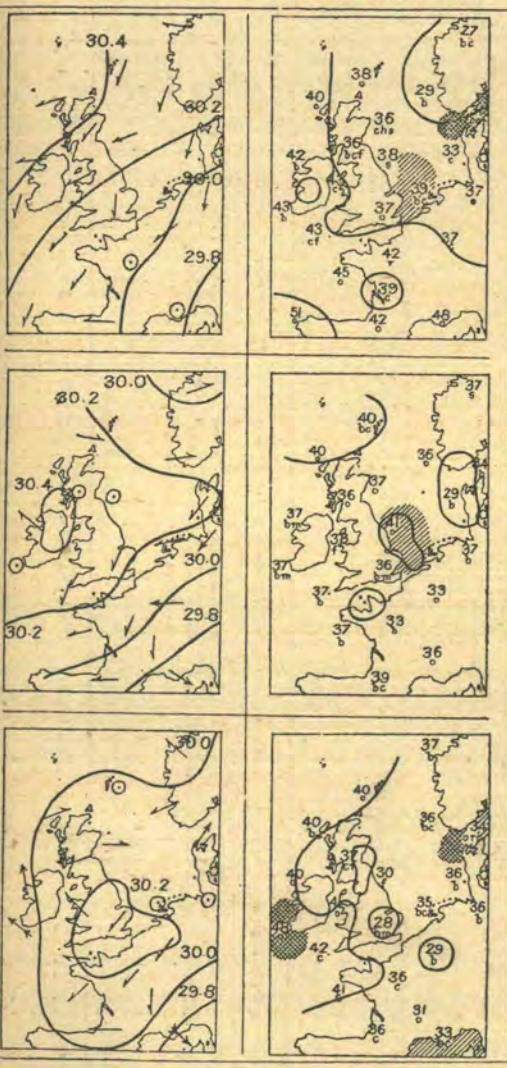
Wind northerly over these Islands and the North Sea, but easterly in France, light or moderate on our coasts, but blowing a gale in the Skager Rack. Northerly breezes holding all day.

Sea very rough at the Skaw.

Barometer rising in the N. of Scandinavia and over France, falling over these Islands. Depression from Norway travelling south-eastward across the Baltic and that over N. Spain filling up. Slight decrease taking place during day except in N.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, October 29.

Weather dull with hail and snow showers in the N. and E., but fine and bright in the W. Some mist and fog prevailing. No change of weather later.

Temperature again fallen generally; readings ranging from 43° in the S.W. to 31° at Parsonstown and 35° at Nairn. Low all day and maxima scarcely exceeding 45° except in S.W.

Wind northerly and north-easterly generally, blowing rather strongly on the eastern shores of the North Sea and our E. coast. Little change later.

Sea very rough on the Skager Rack and rough on our E. coast.

Barometer falling over France, our S.W. coasts, and in the extreme N., rising elsewhere. Pressure highest off our N.W. coasts lowest in the S.E. of France. Mercury rising slowly all day.

Sunday, October 30.

Weather dull in the N. and E. with showers in some places, but fair on the whole. Cloudy with some showers in the E. all day, but fair elsewhere.

Temperature fallen generally; readings ranging from 41° at Spurn Head to 32° at Oxford and 31° at Parsonstown. Low all day, maxima varying between 41° and 51°.

Wind westerly on our most northern coasts, northerly to north-easterly elsewhere; light or moderate generally, but blowing strongly on the S.E. coast of England. Shifting to S. and S.W. in W. Ireland in evening.

Sea rough on our S.E. coast.

Barometer rising over the greater part of Ireland, England, the N. of France, and N. Germany, falling elsewhere. Large area of high pressure lying over the W. and N. of these Islands. Decrease commencing at Valencia later.

Monday, October 31.

Weather fine on the eastern shores of the North Sea, the eastern half of these Islands, and the N.E. of France, dull in the W. Rain commencing in Ireland later, but fine all day in S.E.

Temperature risen fast in the S.W., fallen elsewhere; readings ranging from 48° at Valencia to 26° at Oxford. Increase of temperature extending eastward later, but thermometer low all day.

Wind easterly over France, southerly in Ireland, westerly in Scotland, and light and variable over England. Southerly strong winds and gales blowing all day in the W., but not extending to the eastern stations.

Sea very rough off the S.W. of Ireland and in the Skager Rack.

Barometer falling fast in Ireland and decrease spreading quickly over these Islands, but mercury rising in the W. of France and in Scandinavia. Falling quickly all day, large depression shown off W. of Ireland.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
Scotland, N.	Sumburgh Head	49	34	46·0	37·9	42·0	−2·0	5	0·51	−0·31	*	*
	Stornoway	50	33	47·0	36·9	42·0	−2·9	1	0·09	−1·01	14	22
	Wick	50	33	46·9	36·1	41·5	−3·0	4	0·21	−0·49	*	*
Channel Islands	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	51	37	47·3	41·4	44·4	−7·7	5	0·39	−0·42	28	40

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	46	35	43·3	37·1	40·2	− 4·6	3	0·16	−0·37	*	*
	Aberdeen	50	31	45·7	36·9	41·3	− 3·5	4	0·39	−0·41	15	23
	Leith	49	27	46·7	35·9	41·3	− 3·5	4	0·18	−0·26	*	*
2. ENGLAND, N.E.	Alnwick Castle	45	24	42·3	34·1	38·2	− 8·2	6	0·71	?	*	*
	Shields	46	28	43·9	37·1	40·5	− 6·4	4	0·37	−0·23	*	*
	Durham	47	22	43·6	33·3	38·5	− 8·1	4	0·40	−0·30	13	20
	York	49	28	45·3	35·0	40·2	− 6·8	3	0·09	−0·53	14	21
	Spurn Head	48	35	46·3	38·0	42·2	− 4·9	6	0·33	?	*	*
	Brigg‡ ℳ	48	29	46·5	34·0	40·3	− 6·8	5	0·36	?	19	28
3. ENGLAND, E.	Hillington ℳ	50	27	47·0	34·7	40·9	− 6·7	5	0·62	+0·09	19	28
	Yarmouth	48	35	45·9	39·0	42·5	− 5·6	6	0·69	+0·07	*	*
	Geldeston	50	32	46·9	36·5	41·7	− 6·3	7	0·86	+0·26	24	35
	Cambridge	51	26	47·7	33·1	40·4	− 7·3	5	0·11	−0·29	32	47
	Rothamsted	48	25	45·4	33·1	39·3	− 9·6	6	0·09	−0·49	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	29	47·3	35·3	41·3	− 5·8	3	0·15	−0·44	*	*
	Nottingham	50	31	47·3	35·7	41·5	− 6·1	4	0·16	−0·42	*	*
	Loughborough	49	32	47·0	36·3	41·7	− 5·3	4	0·12	−0·47	*	*
	Leicester	49	31	46·3	36·5	41·4	− 6·7	2	0·08	−0·44	20	30
	Birmingham (Oscott)	48	28	45·0	34·8	39·9	− 8·1	2	0·15	−0·55	*	*
	Cheadle ℳ	47	29	44·7	34·7	39·7	− 8·4	1	0·09	?	*	*
	Churchstoke ℳ	48	23	43·9	32·7	38·3	−10·2	2	0·14	?	13	19
	Hereford ℳ	49	24	45·8	34·7	40·3	− 8·7	2	0·10	−0·59	*	*
	Cirencester	49	24	44·6	33·8	39·2	− 9·8	3	0·04	−0·65	25	37
	Oxford	51	26	46·7	35·0	40·9	− 8·1	3	0·07	−0·52	25	37
5. ENGLAND, S.	London†	51	27	48·1	36·6	42·4	− 6·7	1	0·15	−0·41	21	31
	Marlborough ℳ	49	21	45·1	32·6	38·9	−10·1	1	0·01	−0·70	29	43
	Strathfield Turgiss ℳ	53	22	48·2	31·4	39·8	− 9·2	0	—	−0·60	*	*
	Dover	50	34	45·7	40·0	42·9	− 6·9	4	1·35	+0·55	*	*
	Hastings (St. Leonard's)	52	32	46·8	37·6	42·2	− 7·8	5	0·66	−0·06	*	*
	Southampton	52	26	47·7	35·1	41·4	− 8·1	0	—	?	33	49
	Hurst Castle	51	28	47·3	37·4	42·4	− 8·1	1	0·02	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	49	32	45·3	35·7	40·5	− 5·0	3	0·57	?	*	*
	Glasgow	48	30	44·6	36·2	40·4	− 4·6	3	0·06	−0·84	8	12
	Ardrossan	48	34	45·4	36·9	41·2	− 4·9	1	0·01	−0·99	*	*
	Silloth (Cumberland)	49	21	45·9	32·0	39·0	− 7·9	0	—	−0·84	22	33
	Douglas (Isle of Man)	51	26	46·9	36·8	41·9	− 5·6	3	0·21	−0·81	15	22
7. ENGLAND, N.W.	Barrow-in-Furness	55	29	48·3	36·6	42·5	− 5·4	1	0·09	?	*	*
	Stonyhurst	47	26	43·8	33·1	38·5	− 9·0	0	—	−1·33	17	25
	Blackpool ℳ	49	26	45·6	33·8	39·7	− 8·9	1	0·20	−0·80	*	*
	Manchester	48	27	44·5	33·6	39·1	− 8·7	2	0·08	−0·92	*	*
	Liverpool Obsy (Bidston)	48	32	44·9	37·3	41·1	− 7·3	1	0·04	−0·91	*	*
	Llandudno ℳ	48	31	45·4	38·2	41·8	− 7·1	1	0·20	−0·75	14	21
	Holyhead	49	36	46·6	40·9	43·8	− 5·1	2	0·30	−0·80	*	*
8. ENGLAND, S.W.	Pembroke	50	34	46·6	38·7	42·7	− 6·8	2	0·39	−0·61	28	41
	Arlington (N. Devon)	49	27	45·1	35·7	40·4	−10·0	1	0·10	?	*	*
	Falmouth	55	35	48·6	39·2	43·9	− 8·1	2	0·98	−0·12	33	48
	Plymouth	52	29	48·8	37·7	43·3	− 8·2	1	0·48	−0·37	40	58
	Prawle Point	51	32	48·4	37·7	43·1	− 8·4	1	0·09	?	*	*
9. IRELAND, N.	Londonderry	50	26	47·1	34·5	40·8	− 5·8	3	0·59	−0·50	*	*
	Mullaghmore	51	35	47·6	41·1	44·4	− 2·2	2	1·13	?	*	*
	Markree Castle	52	20	47·3	32·0	39·7	− 7·2	1	0·26	−0·59	17	25
	Brookeborough	49	20	46·6	32·7	39·7	− 7·2	1	1·15	?	*	*
	Armagh	50	27	46·1	36·9	41·5	− 5·5	2	0·96	+0·21	18	27
	Donaghadee	49	26	46·9	38·4	42·7	− 4·0	2	0·42	?	*	*
10. IRELAND, S.	Dublin	50	32	47·3	40·1	43·7	− 4·6	5	0·78	+0·08	14	21
	Parsonstown	50	24	47·4	34·6	41·0	− 5·5	?	?	?	14	21
	Waterford	52	29	48·4	38·0	43·2	− 5·4	1	0·94	−0·06	*	*
	Roche's Point	53	32	50·7	39·9	45·3	− 3·7	2	1·20	+0·12	*	*
	Valencia	56	31	51·1	38·1	44·6	− 3·7	2	1·61	+0·04	32	47
	Foynes	52	29	47·9	37·1	42·5	− 5·3	1	0·84	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 44.] WEEK ENDING MONDAY, NOVEMBER 7, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Arn[illegible]Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—* The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	60	27	49	37	43	0 (average).	5	5	1 less.	14	23
	2. ENGLAND, N.E.	60	28	50	39	45	1 below.	4	5	1 less.	11	17
	3. ENGLAND, E.	63	27	51	40	46	1 below.	5	5	1 less.	6	10
	4. MID. COUNTIES	62	26	51	39	45	1 below.	6	7	2 more.	11	17
	5. ENGLAND, S.	64	28	53	42	48	0 (average).	7	8	1 more.	7	11
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	57	32	49	41	46	1 above.	5	10	1 more.	14	22
	7. ENGLAND, N.W.	59	30	51	40	46	1 below.	4	8	2 less.	17	27
	8. ENGLAND, S.W.	61	32	56	46	51	2 above.	6	12	2 more.	21	32
	9. IRELAND, N.	59	31	53	42	48	2 above.	5	6	2 less.	28	44
	10. IRELAND, S.	61	28	56	46	51	4 above.	5	7	3 less.	33	51

General Remarks.

Weather has been rather variable; at first it was very cold and cloudy with a few showers of sleet, snow, or hail, but afterwards very mild with occasional rain.

Temperature during the first few days was very much below the mean, but during the latter part of the period it was considerably in excess, so that the average for the week differs very little from the mean in most parts of Great Britain, but was above it in Ireland and "England, S.W." The maxima, which were generally registered on the 5th, were very high, reaching 64° in London, and 63° at Cambridge and Strathfield Turgiss, while the minima— recorded on the 1st or 2nd—were as low as 26° at Oxford, 27° at Cambridge and Leith, and 28° at Parsonstown.

Rainfall has been rather less than the mean in Ireland and the north-eastern and northern parts of Great Britain, but a little more elsewhere.

Bright sunshine shows an increase in Ireland, but a decided decrease in most parts of England and Scotland. The percentages ranged from 51 in "Ireland, S." to 32 in "England, S.W." and 10 in "England, E."

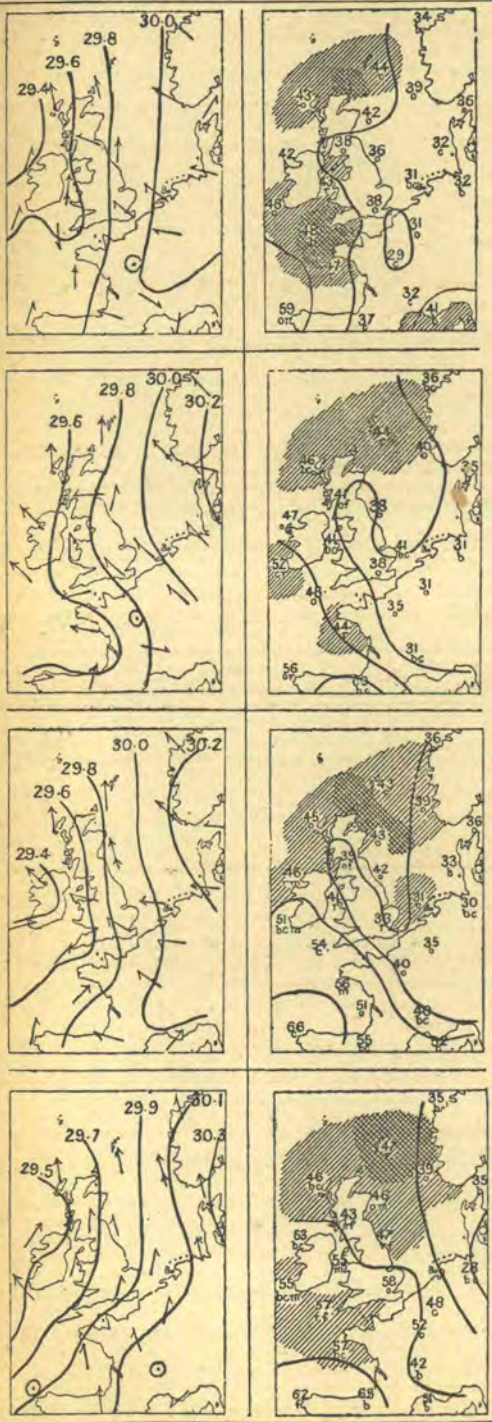
Depressions observed.—Several depressions, mostly small and shallow, have travelled in a northerly or north-easterly direction over our western coasts. The winds, chiefly from S. or S.W., were strong to a gale on the 1st, but afterwards became moderate or light. During the greater part of the period the barometer was highest over Scandinavia, but on the 6th and 7th pressure was greatest over central and southern France.

Q 8579. 100.—11/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 7, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 1.

Weather fine in some parts of Ireland, but cloudy or dull in nearly all other places, with rain at several stations, and sleet or hail at Jersey, Barrow-in-Furness, and Ardrossan. Little change during day.

Temperature risen in most places; readings ranging from 48° at Valencia, to 33° over Central England. Low all day in the East, and maxima varying from between 54° at Valencia to only at 38° at York.

Wind southerly (S.W. to S.E.) nearly everywhere; blowing strongly generally, and reaching a gale in the N.W. and N.E. Falling lighter except in the N.E. later in the day, but not changing in direction.

Sea rough in the S.W., W., and N.

Barometer falling at nearly all stations, anticyclone shown in N. Sweden with large depression off our N.W. coasts, and smaller disturbances in the W. and S.W. Recovering in the W. and S.W. later, still falling elsewhere.

Wednesday, November 2.

Weather varying considerably; fine in some places, dull or very cloudy in others. Rain falling in S. Ireland, and the Shetlands. Dull or cloudy all day, with rain except in the N. and N.E.

Temperature risen a few degrees generally; readings ranging from 52° at Valencia to 34° at Leith. Slight further rise during day, and maxima between 54° and 48°.

Wind E. to S.E. over France, England, and Ireland, but drawing into S. in Scotland; blowing strongly in the N.E., and at Valencia, but moderate or light elsewhere. Increasing in force during day,

Sea rough in the N. and S.W.

Barometer falling over France and our S.W. coasts, rising elsewhere; readings highest over Sweden, low off our W. coasts, and the Bay of Biscay. Rising all day in Scandinavia, and falling in the S.W.; gradients becoming steep.

Thursday, November 3.

Weather unsettled; dull in nearly all places, with rain over England. Dull with rain all day except in the extreme West.

Temperature again risen slightly at most stations, very considerable increase taking place in S. later, and thermometer rising to about 55° there.

Wind south-westerly to southerly in France, south-easterly to southerly over these Islands and Scandinavia, blowing strongly or with the force of a gale except in the S.E. Decreasing in force except in the N.E.

Sea rough or high except in the S. and S.W.

Barometer falling over these Islands, rising on the Continent. Pressure highest in Sweden, lowest over Ireland. Irish disturbance moving northward later and pressure recovering.

Friday, November 4.

Weather fine in parts of France, in Ireland and the Hebrides, dull elsewhere with rain in many places. Rather cloudy all day, but fair on the whole.

Temperature risen except on the eastern shores of the North Sea, very quickly in the S.E. of England; readings ranging from 58° in London to 38° at Nairn. Maxima between 46° and 61°.

Wind between S.W. and S.E. all over western Europe, blowing strongly in Norway and Ireland, freshly or moderately elsewhere. Light to fresh south-westerly winds all day.

Sea rough in the S.W. and very rough in the N.E.

Barometer rising at all the more southern stations, falling in the N. and N.E. Readings still highest over Sweden and lowest off the W. of Ireland. Pressure increasing all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 5.

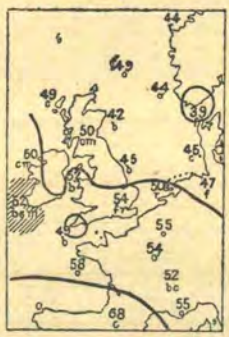
Weather again fine in parts of France and Ireland, cloudy or dull elsewhere with some rain and fog. Moderately fine all day except in the extreme W. and N.

Temperature fallen in Ireland, risen elsewhere; readings ranging from 57° over central England to 43° at Nairn. Maxima between 48° and 64°.

Wind south-westerly to southerly, fresh to light in force on all coasts. Wind backing towards S. at Valencia later, but little other change.

Sea rather rough in the Channel, at Valencia, and Sumburgh Head.

Barometer rising except over Denmark and the S. of Scandinavia; pressure highest over the S.E. of France, lowest off our N.W. coasts. Slight increase of pressure all day; distribution unaltered.



Sunday, November 6.

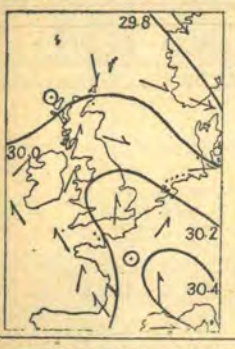
Weather fine on our W., S.W., and N.E. coasts, cloudy or dull elsewhere, with rain over the S.E. of England. Weather fine all day in most districts.

Temperature fallen a few degrees generally; readings ranging from 54° in the S.E. of England to 42° at Aberdeen. Maxima ranging from 50° in the N. to 61° in the S.

Wind south-westerly and westerly all over the country, moderate or light in force in most places. No change of importance later.

Sea rather rough at Valencia, moderate or smooth elsewhere.

Barometer rising except in Scandinavia. Pressure highest in the S.E. of France, relatively low off our N.W. coasts and off the W. of Norway. Pressure increasing slowly all day.



Monday, November 7.

Weather dull and foggy in our southern and south-western districts, moderately fine in most other places. Fair on the whole during day, but slight rain falling except in the E. and N.E.

Temperature fallen slightly; readings ranging from 55° at Falmouth to 38° at Aberdeen. Maxima between 49° in the N. and 61° in the S.W.

Wind varying between S. and E. in the S., and between W. and N.W. in the N.; light or moderate in force on nearly all coasts. Falling very light in evening.

Sea slight round our coasts.

Barometer falling on our S.W. coasts and in the W. of France, rising elsewhere. Pressure highest in the S.E. of France, and lowest in the extreme N. of Norway, but readings very uniform over the British Isles. Falling slowly all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	51	37	47·6	40·3	44·0	+1·1	7	0·71	+0·11	*	*
	Stornoway	55	37	50·9	41·9	46·4	+2·5	6	0·88	−0·19	6	10
	Wick	55	38	49·0	40·0	44·5	+1·0	4	0·20	−0·50	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	61	34	55·6	44·7	50·2	−0·4	4	0·47	−0·32	11	17

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	53	30	47·3	36·0	41·7	− 1·4	3	0·25	−0·28	*	*
	Aberdeen	56	31	49·9	37·3	43·6	+ 0·3	6	0·90	+0·21	14	23
	Leith	60	27	50·0	36·6	43·3	− 0·1	5	0·33	−0·12	*	*
2. ENGLAND, N.E.	Alnwick Castle	57	33	49·4	39·4	44·4	− 0·5	4	0·69	?	*	*
	Shields	56	29	50·1	38·9	44·5	− 0·5	4	0·28	−0·34	*	*
	Durham	57	30	48·4	38·1	43·3	− 1·7	3	0·31	−0·39	11	18
	York	59	28	50·6	37·4	44·0	− 1·0	4	0·64	+0·04	9	14
	Spurn Head	56	35	50·1	40·9	45·5	+ 0·2	4	0·36	?	*	*
	Brigg‡ Ⓜ	60	33	51·6	38·7	45·2	− 0·3	4	0·65	?	13	20
3. ENGLAND, E.	Hillington Ⓜ	60	31	49·9	38·4	44·2	− 1·4	3	0·54	+0·01	5	8
	Yarmouth	59	36	51·1	40·9	46·0	− 0·1	4	0·43	−0·22	*	*
	Geldeston	61	32	51·2	41·3	46·3	+ 0·3	6	0·34	−0·24	6	9
	Cambridge	63	27	54·1	39·9	47·0	+ 1·5	5	0·49	+0·09	8	13
	Rothamsted	61	30	50·6	38·2	44·4	− 2·6	7	0·59	+0·04	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	59	32	52·4	37·1	44·8	− 0·2	5	0·59	+0·04	*	*
	Nottingham	61	31	53·1	38·3	45·7	− 0·2	6	0·80	+0·26	*	*
	Loughborough	62	32	52·2	38·8	45·5	+ 0·2	6	0·73	+0·16	*	*
	Leicester	59	31	50·4	39·2	44·8	− 0·9	5	0·59	+0·08	7	11
	Birmingham (Oscott)	60	31	50·2	40·6	45·4	− 0·6	4	0·64	+0·03	*	*
	Cheadle Ⓜ	59	30	48·3	37·6	43·0	− 3·2	6	1·08	?	*	*
	Churchstoke Ⓜ	60	32	50·6	38·5	44·6	− 1·7	5	0·55	?	18	28
	Hereford Ⓜ	61	34	52·8	39·2	46·0	− 1·0	7	0·55	−0·10	*	*
	Cirencester	58	33	51·4	38·0	44·7	− 1·9	7	1·19	+0·51	9	14
	Oxford	60	26	53·0	40·3	46·7	− 0·1	7	0·72	+0·17	8	13
5. ENGLAND, S.	London†	64	28	54·4	41·0	47·7	+ 0·7	6	0·44	−0·07	5	8
	Marlborough Ⓜ	60	32	52·1	40·0	46·1	− 0·9	7	0·73	+0·08	10	15
	Strathfield Turgiss Ⓜ	63	32	53·8	40·0	46·9	0·0	6	0·50	−0·05	*	*
	Dover	57	33	51·6	42·0	46·8	− 1·0	7	0·70	−0·10	*	*
	Hastings (St. Leonard's)	58	36	51·8	45·4	48·6	+ 0·8	6	0·66	−0·04	*	*
	Southampton	61	37	54·8	44·2	49·5	+ 2·5	7	1·09	?	6	9
	Hurst Castle	59	31	54·9	42·9	48·9	+ 0·4	7	1·16	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	55	37	49·3	44·8	47·1	+ 2·7	6	1·01	?	*	*
	Glasgow	54	33	47·5	39·2	43·4	− 0·5	6	1·34	+0·45	7	11
	Ardrossan	53	33	48·7	40·0	44·4	− 0·2	6	1·09	+0·11	*	*
	Silloth (Cumberland)	55	32	50·3	39·3	44·8	− 0·3	3	0·51	−0·29	17	27
	Douglas (Isle of Man)	57	38	52·9	43·1	48·0	+ 2·1	5	1·03	0·00	18	29
7. ENGLAND, N.W.	Barrow-in-Furness	55	31	49·9	39·4	44·7	− 0·9	4	0·94	?	*	*
	Stonyhurst	57	32	49·1	39·3	44·2	− 1·3	5	1·02	−0·25	7	11
	Blackpool Ⓜ	56	32	50·5	37·4	44·0	− 1·6	5	0·95	+0·09	*	*
	Manchester	59	31	50·1	38·2	44·2	− 1·3	5	0·95	0·00	*	*
	Liverpool Obsy (Bidston)	58	30	50·9	39·7	45·3	− 1·2	3	0·44	−0·41	*	*
	Llandudno Ⓜ	59	35	53·0	42·9	48·0	+ 0·9	3	0·51	−0·39	27	42
	Holyhead	56	37	53·4	44·6	49·0	+ 1·6	4	0·56	−0·39	*	*
8. ENGLAND, S.W.	Pembroke	57	42	54·6	47·4	51·0	+ 3·0	7	1·39	+0·44	26	41
	Arlington (N. Devon)	59	33	55·3	41·6	48·5	+ 0·4	7	0·87	?	*	*
	Falmouth	59	43	56·0	49·2	52·6	+ 2·0	6	1·41	+0·24	24	36
	Plymouth	59	32	56·2	46·1	51·3	+ 1·4	5	1·18	+0·38	12	18
	Prawle Point	61	40	56·7	46·3	51·5	+ 1·7	5	0·94	?	*	*
9. IRELAND, N.	Londonderry	59	35	55·1	40·8	48·0	+ 2·8	5	0·26	−0·74	*	*
	Mullaghmore	58	38	55·3	44·0	49·7	+ 4·5	6	0·76	?	*	*
	Markree Castle	58	33	52·5	40·9	46·7	+ 1·5	7	0·39	−0·41	27	43
	Brookeborough	58	35	53·7	42·1	47·9	+ 2·4	4	0·79	?	*	*
	Armagh	56	40	51·9	42·8	47·4	+ 1·8	4	0·41	−0·28	28	44
	Donaghadee	58	31	52·0	38·9	45·5	+ 0·3	4	0·89	?	*	*
10. IRELAND, S.	Dublin	57	39	54·1	44·7	49·4	+ 2·7	3	0·12	−0·58	32	50
	Parsonstown	57	28	55·0	41·6	48·3	+ 2·3	4	0·24	−0·45	38	59
	Waterford	59	36	55·7	46·1	50·9	+ 4·1	7	0·90	−0·05	*	*
	Roche's Point	59	42	56·0	47·4	51·7	+ 4·2	5	1·24	+0·14	*	*
	Valencia	61	41	56·9	47·6	52·3	+ 5·5	6	1·10	−0·25	29	45
	Foynes	60	41	56·4	44·9	50·7	+ 4·2	4	0·42	?	*	*

Stations marked Ⓜ are in connection with the Meteorological Society.

* An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amount are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 45.] WEEK ENDING MONDAY, NOVEMBER 14, 1881. [*Price 2d.* [*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	65	34	56	43	50	8 above.	4	3	2 less.	5	8
	2. ENGLAND, N.E.	62	38	56	46	51	8 above.	2	1	7 less.	8	14
	3. ENGLAND, E.	61	39	56	46	51	7 above.	2	1	5 less.	15	25
	4. MID. COUNTIES	65	39	57	48	52	8 above.	1	1	4 less.	13	21
	5. ENGLAND, S.	64	41	56	48	52	7 above.	2	1	5 less.	9	14
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	60	37	55	47	52	8 above.	5	14	2 more.	3	6
	7. ENGLAND, N.W.	63	42	56	49	53	8 above.	3	3	4 less.	6	10
	8. ENGLAND, S.W.	63	47	56	51	54	6 above.	4	3	7 less.	9	14
	9. IRELAND, N.	62	37	57	49	53	9 above.	5	8	1 more.	6	9
	10. IRELAND, S.	63	42	58	52	55	10 above.	5	8	1 less.	8	13

General Remarks.

Weather during this period has been of a very unusual character. The sky has been generally densely overcast with mild damp south-westerly winds, but except at our extreme north-western stations the amount of rain has been very small, scarcely any being experienced over the greater part of England.

Temperature has been greatly above the mean in all districts; in Ireland the excess was as much as 9° or 10°, and over Great Britain 7° or 8°. The maxima were again very high, the thermometer rising to 65° at Nottingham on the 13th, and to the same height at Leith on the 14th. In London and at Hereford a reading of 64° was registered. The thermometer was generally lowest on the 8th, when it fell to 34° at Aberdeen. On most other days the minima varied between 45° and 50°.

Rainfall except in "Scotland, W." and "Ireland, N." has been much less than the mean.

Bright sunshine has been exceedingly deficient in all parts of the Kingdom, the percentages varying from 6° in "Scotland, W." to 21° over central England and 25° in "England, E."

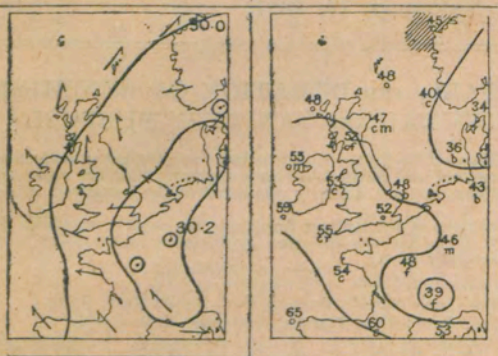
Depressions observed.—At the commencement of the period an area of high pressure lay over Denmark and Germany, but by the 10th it had moved south-westward to France and continued over that country for the remainder of the week. The barometer was lowest to the westward and northward of our Islands and several depressions passed in a northerly or north-easterly direction over our western and northern coasts, causing the wind—which was generally moderate from S.W. or W.—to freshen at times in the extreme W. to a strong breeze or moderate or fresh gale.

3677. 100.—11/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending November 14, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 8.

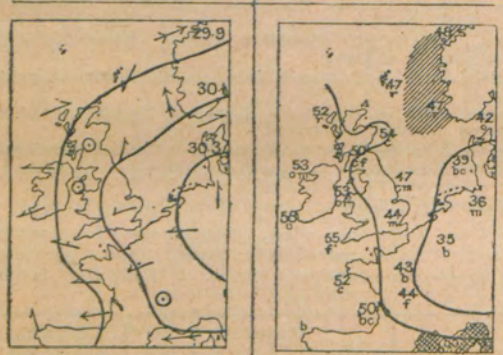
Weather fine on the S.E. coast of England and in Denmark, cloudy or dull elsewhere, with fog or mist in several places. Cloudy, dull, and misty all day, but very little rain falling.

Temperature risen generally, and readings ranging from 59° at Valencia, to 44° at Leith. Steady all day, and maxima varying from about 48° on our E. coast, to 62° in the S.W.

Wind easterly to south-easterly over France, England, and Ireland, but southerly in Scotland, moderate or light in force generally. Increasing a little in force in the W. later, but little other change.

Sea moderate to smooth round our coasts.

Barometer rising in the S.E. and over the whole of Scandinavia, falling elsewhere. Large area of high pressure lying over us, the highest readings being reported from the E. of France. Giving way over France and our S.W. and W. coasts later.



Wednesday, November 9.

Weather fine on our S.E. coasts and at several French and N. German stations, cloudy or dull elsewhere still, with a good deal of drizzling rain, mist, or fog. Improving in the S. and E. later, but rain falling in the W. and N.

Temperature risen N., fallen elsewhere; readings ranging from 58° at Valencia to 44° in London. Changing irregularly during day, and maxima varying from 47° on our E. coast to 63° at Valencia.

Wind easterly to south-easterly over France, England, and Ireland, but drawing into S.W. over Scotland and Scandinavia. Light or moderate on our coasts, but blowing a gale in W. Norway. Little change later.

Sea rough on the Norwegian coast.

Barometer rising in N. Germany, falling elsewhere; highest over Germany and lowest over the N. of Scandinavia, with slight depressions off our W. coasts. Slight decrease holding all day.

Thursday, November 10.

Weather fine over France and Denmark, dull with mist or fog in nearly all other places. Fine in the east during the day but still dull generally with slight rain.

Temperature risen in the S. of England and N. and W. of France, fallen in most other places; readings ranging from 56° at Valencia and in London to 40° at Nairn. Maxima between 51° in the extreme N. and 64° in London.

Wind westerly and south-westerly on our own and the French coasts, and southerly on the eastern shores of the North Sea. Light to fresh in force. Backing towards S. generally later.

Sea rough at Roche's Point and off the W. of Norway.

Barometer rising on our S. and S.W. coasts and over France, falling elsewhere. Area of high pressure lying over the S.E. of France with shallow depression in N. Scotland. Rising slightly during day.

Friday, November 11.

Weather dull except on the extreme S.E. coast of England, with rain in Ireland. Little change later, weather continuing wet in the W. and N. and fair in the S.E.

Temperature risen at the majority of stations—quickly in the N.E.; readings ranging from 59° at Valencia to 48° at Yarmouth. Maxima varying between 51° and 59°.

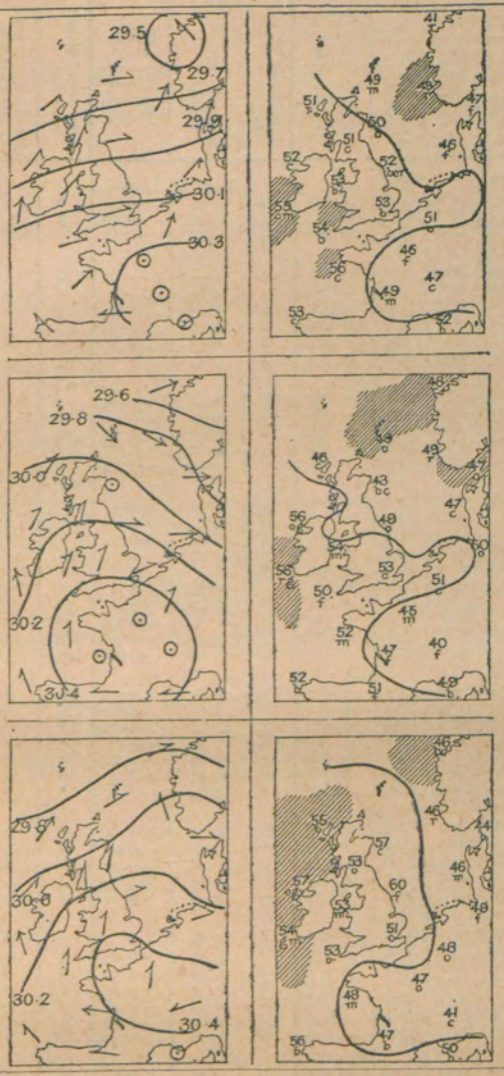
Wind southerly and south-westerly all over the kingdom; strong to a gale in force in the W. of Ireland, but light or moderate generally. Little change in direction later, but force decreasing in west.

Sea rough to high off the Irish coast.

Barometer falling in Sweden, but rising elsewhere. Large anticyclone over France with depressions over Lapland and off our N.W. coasts. Pressure giving way during day everywhere.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 12.

Weather fair on the whole, but very cloudy in Ireland and rainy in the Hebrides. Fine all day in the S.E., but dull and rather showery elsewhere.

Temperature risen a little over central and eastern England, fallen generally; ranging from 55° at Valencia to 48° at Wick. High and uniform all day, maxima varying between 52° and 63°.

Wind between S. and W. on nearly all coasts, blowing freshly in some places, but moderate generally. South-westerly and westerly winds holding all day, blowing strongly in the W. and N.

Sea rough in the S.W.

Barometer rising in the W. and S.W., falling elsewhere. Pressure highest over the S.E. of France, lowest near Christiansund. Rising during day in most places, but brisk fall occurring at Stornoway at 6 o'clock.

Sunday, November 13.

Weather fine in the more eastern parts of the Kingdom, cloudy elsewhere, with rain at Valencia and much mist and fog over France. Dull and wet in the W. and N. all day but fine in the S.E.

Temperature fallen somewhat in most places, and readings ranging from 56° in W. Ireland to 43° at Aberdeen. Again high during day, maxima varying between 53° and 65°.

Wind southerly and south-westerly on our W. coasts, westerly in the east and over the North Sea, but north-westerly in the Shetlands and at Wick. Blowing very strongly at Valencia. South-westerly and westerly winds continuing but force decreasing.

Sea rough in the extreme N., and at Valencia.

Barometer risen in all places—quickly in the N.; anticyclone lying over France, with depression over Norway and relatively low readings off our N.W. coasts. Falling rather briskly in Scotland in the evening.

Monday, November 14.

Weather fine in parts of the E. and N. of England and S.W. of France, cloudy in most other places with mist and gloom in the W. Dull all day with some fog and mist.

Temperature risen very quickly in the N.E., fallen or changed little elsewhere. Readings ranging from 60° at Shields to 48° at Jersey. Maxima varying between 53° and 65°.

Wind south-easterly at Valencia, southerly to south-westerly elsewhere; blowing strongly on our extreme W. coasts and moderately or freshly elsewhere. S.E. gale at Valencia all day.

Sea rough off the W. of Ireland and off the Hebrides.

Barometer falling at all except the Scandinavian and some of our north-western stations. Area of high pressure shown over the E. of France with a large area of low readings to the northward of these Islands and a second apparently approaching Ireland. Falling all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛⟶ = a heavy gale; ⇾⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	53	41	51·3	44·9	48·1	+6·1	6	1·13	+0·52	*	*
	Stornoway	56	41	53·6	44·3	49·0	+6·2	7	1·35	+0·33	0	0
	Wick	56	38	52·9	41·6	47·3	+5·0	5	0·62	−0·10	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	64	47	57·1	50·4	53·8	+4·8	3	0·25	−0·48	23	35

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	59	37	53·9	41·7	47·8	+ 6·3	4	0·39	−0·13	*	*
	Aberdeen	59	34	56·1	42·1	49·1	+ 7·1	4	0·20	−0·49	5	8
	Leith	65	36	58·6	44·3	51·5	+ 9·9	4	0·34	−0·11	*	*
2. ENGLAND, N.E.	Alnwick Castle	60	41	56·0	46·3	51·2	+ 8·1	3	0·09	?	*	*
	Shields	62	42	56·6	45·7	51·2	+ 7·9	1	0·04	−0·61	*	*
	Durham	60	38	55·7	46·1	50·9	+ 7·1	2	0·02	−0·68	10	16
	York	60	38	57·0	44·9	51·0	+ 7·4	2	0·11	−0·49	3	6
	Spurn Head	57	42	53·3	45·9	49·6	+ 6·4	1	0·08	?	*	*
	Brigg‡ ℳ	60	40	57·0	46·3	51·7	+ 9·2	1	0·13	?	12	19
3. ENGLAND, E.	Hillington ℳ	59	41	56·0	46·0	51·0	+ 7·2	3	0·06	−0·48	9	15
	Yarmouth	57	44	54·3	46·4	50·4	+ 5·9	1	0·02	−0·67	*	*
	Geldeston	60	40	56·3	45·6	51·0	+ 6·1	1	0·04	−0·54	21	34
	Cambridge	61	40	57·9	46·4	52·2	+ 8·7	1	0·07	−0·32	15	25
	Rothamsted	60	39	55·9	46·9	51·4	+ 6·5	5	0·08	−0·42	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	61	41	58·0	45·6	51·8	+ 8·6	1	0·09	−0·41	*	*
	Nottingham	65	39	59·1	46·0	52·6	+ 8·6	1	0·11	−0·38	*	*
	Loughborough	63	40	57·3	47·4	52·4	+ 8·5	1	0·08	−0·42	*	*
	Leicester	60	42	56·7	47·4	52·1	+ 8·2	3	0·06	−0·44	15	24
	Birmingham (Oscott)	62	44	56·3	47·6	52·0	+ 8·1	0	—	−0·55	*	*
	Cheadle ℳ	61	45	55·2	47·1	51·2	+ 7·4	1	0·09	?	*	*
	Churchstoke ℳ	62	44	57·5	48·0	52·8	+ 8·3	2	0·10	?	16	26
	Hereford ℳ	64	45	57·3	48·8	53·1	+ 8·1	1	0·03	−0·49	*	*
	Cirencester	58	42	55·6	48·1	51·9	+ 7·4	2	0·02	−0·49	7	12
	Oxford	59	46	56·9	49·7	53·3	+ 8·8	1	0·06	−0·43	13	21
5. ENGLAND, S.	London†	64	42	58·3	48·0	53·2	+ 8·1	1	0·06	−0·39	8	13
	Marlborough ℳ	60	46	56·4	48·4	52·4	+ 7·4	1	0·13	−0·48	8	13
	Strathfield Turgiss ℳ	60	41	56·1	46·4	51·3	+ 6·3	1	0·12	−0·39	*	*
	Dover	56	45	54·7	48·4	51·6	+ 5·8	2	0·06	−0·83	*	*
	Hastings (St. Leonard's)	57	47	54·4	49·7	52·1	+ 6·1	4	0·05	−0·65	*	*
	Southampton	62	47	57·1	49·1	53·1	+ 7·9	2	0·10	?	10	15
	Hurst Castle	56	45	54·6	48·9	51·8	+ 5·4	3	0·09	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	60	44	57·9	49·1	53·5	+10·4	6	2·53	?	*	*
	Glasgow	59	40	55·0	47·3	51·2	+ 8·3	5	0·97	+0·09	2	4
	Ardrossan	55	42	54·0	47·6	50·8	+ 7·7	5	1·09	+0·16	*	*
	Silloth (Cumberland)	59	37	54·7	44·7	49·7	+ 5·9	5	0·90	+0·20	4	7
	Douglas (Isle of Man)	57	48	55·3	50·2	52·8	+ 8·3	5	1·30	+0·28	4	7
7. ENGLAND, N.W.	Barrow-in-Furness	57	45	53·7	46·7	50·2	+ 6·4	3	0·84	?	*	*
	Stonyhurst	57	42	55·7	46·8	51·3	+ 7·8	3	0·56	−0·63	1	1
	Blackpool ℳ	57	43	54·4	47·8	51·1	+ 7·1	5	0·50	−0·25	*	*
	Manchester	60	44	57·2	47·6	52·4	+ 8·9	3	0·31	−0·59	*	*
	Liverpool Obsr (Bidston)	60	45	57·1	49·3	53·2	+ 8·7	2	0·18	−0·47	*	*
	Llandudno ℳ	63	49	60·1	51·7	55·9	+10·7	1	0·15	−0·69	11	19
	Holyhead	62	44	56·6	50·9	53·8	+ 7·9	4	0·64	−0·16	*	*
8. ENGLAND, S.W.	Pembroke	56	49	55·0	51·6	53·3	+ 6·8	5	0·31	−0·59	6	9
	Arlington (N. Devon)	60	47	56·0	49·1	52·6	+ 6·1	4	0·39	?	*	*
	Falmouth	59	50	56·9	52·6	54·8	+ 5·8	5	0·29	−0·91	13	21
	Plymouth	63	49	58·8	51·8	55·3	+ 7·5	3	0·18	−0·62	8	13
	Prawle Point	60	50	55·9	51·1	53·5	+ 5·6	2	0·15	?	*	*
9. IRELAND, N.	Londonderry	61	43	58·5	48·1	53·3	+ 9·3	6	0·70	−0·20	*	*
	Mullaghmore	62	46	58·7	51·0	54·9	+10·9	6	1·26	?	*	*
	Markree Castle	59	38	56·9	48·4	52·7	+ 8·7	6	0·50	−0·30	4	7
	Brookeborough	58	45	56·4	49·7	53·1	+ 9·1	5	0·66	?	*	*
	Armagh	58	45	56·7	49·4	53·1	+ 9·0	6	0·83	+0·22	7	11
	Donaghadee	58	37	56·1	47·3	51·7	+ 7·8	3	1·02	?	*	*
10. IRELAND, S.	Dublin	62	50	60·1	52·2	56·2	+11·2	2	0·19	−0·51	10	16
	Parsonstown	60	42	58·1	50·1	54·1	+ 9·4	5	0·78	+0·18	8	13
	Waterford	58	51	55·7	52·0	53·9	+ 9·1	7	0·52	−0·38	*	*
	Roche's Point	59	50	57·4	51·0	54·2	+ 8·3	6	1·22	+0·11	*	*
	Valencia	63	49	60·0	53·3	56·7	+11·4	6	1·09	−0·12	6	10
	Foynes	63	48	58·6	51·4	55·0	+10·1	?	?	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 46.] WEEK ENDING MONDAY, NOVEMBER 21, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	58	27	53	40	47	6 above.	6	7	1 more.	14	26
	2. ENGLAND, N.E.	59	27	53	40	47	4 above.	4	4	3 less.	14	24
	3. ENGLAND, E.	58	32	52	42	47	4 above.	5	4	1 less.	22	36
	4. MID. COUNTIES	59	30	53	42	48	5 above.	5	7	2 more.	17	29
	5. ENGLAND, S.	59	31	54	44	49	6 above.	4	7	2 more.	20	33
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	56	28	53	43	48	5 above.	6	10	1 more.	13	22
	7. ENGLAND, N.W.	58	30	53	42	48	5 above.	6	9	2 more.	11	19
	8. ENGLAND, S.W.	58	34	55	47	51	5 above.	6	13	3 more.	18	29
	9. IRELAND, N.	57	31	53	42	48	5 above.	7	9	2 more.	19	33
	10. IRELAND, S.	58	35	55	46	51	7 above.	7	14	5 more.	19	32

General Remarks.

Weather has been dull, unsettled, and rather rainy and squally in all parts of the Kingdom. Lightning was observed in many places at the commencement of the period and at Stornoway a thunderstorm occurred.

Temperature has again been above the mean, the excess varying from 4° in the E. and N.E. of England to 7° in the S. of Ireland. The thermometer was highest on the 20th or 21st, when it rose in most districts to 57° or 59°. The minima, which occurred generally on the 18th, were as low as 27° or 28° in Scotland and the N.E. of England and 30° to 35° elsewhere.

Rainfall has been slightly less than the mean in the E. and N.E. of England, but rather more in all other districts.

Bright sunshine, though still very little prevalent, shows an increase, the percentages ranging from 19° in "England, N.W." to 36° in "England, E."

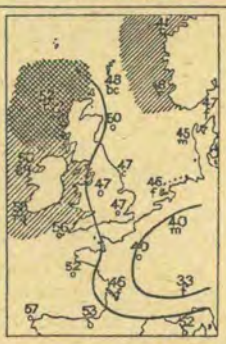
Depressions observed.—During the whole of this period the barometer has been highest over France and lowest to the northward and north-westward of our Islands. Several depressions—some of them very deep—have passed in a northerly or north-easterly direction outside or across our western and northern coasts. The wind has consequently been generally between W. and S. and varied in force from a moderate or fresh breeze to a strong gale. During the night of the 20th an exceptionally violent gale was felt in the N. of Scotland.

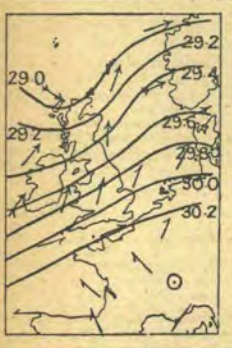
Q 8750. 100.—11/81. Wt. 230. E. & S.

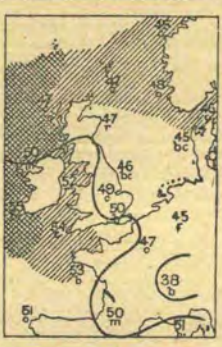
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 21, 1881.

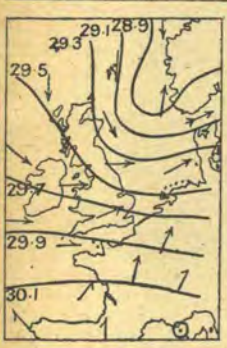
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 15.

Weather cloudy or dull except at a few stations in the N.W. of England and at Dover. Rain falling in the W., and mist reported from several places. Dull and showery till evening, then clearing generally.

Temperature fallen in all places,—very quickly in the N. of England; readings ranging from 56° at Falmouth, to 42° at Shields. Rising briskly later, and maxima between 50° and 57°.

Wind westerly at Valencia, southerly and south-westerly in nearly all other places; fresh to strong in force, and reaching a gale in the Hebrides. Veering on most coasts later, but apparently backing again in S. Ireland at night, and blowing a severe gale.

Sea rough in the W., and very rough round the Hebrides.

Barometer falling except in Scandinavia; pressure highest in the S.E. of France, lowest off our N.W. coasts. Depression passing north-eastward later, and barometer recovering briskly in W.

Wednesday, November 16.

Weather fine in the S. and S.E. of England, and the N.W. of France, but cloudy or dull generally, with rain in several places. Very unsettled all day, clearing in the W. at night, but clouding over with rain in the S.E.

Temperature fallen in the N., changed little elsewhere; ranging from 55° at Valencia to 46° in the N.E. Maxima again varying between 50° and 57°.

Wind westerly in the Hebrides, south-westerly and southerly elsewhere; blowing a gale at Valencia and Stornoway, and in W. Norway. Veering to W. generally later, and rising to a gale in the evening on most coasts.

Sea rough except in the E. and S.E., and very rough round the Hebrides.

Barometer rising over France and the S.E. of England, falling elsewhere,—very fast in Scandinavia; pressure highest over France, with one depression to the northward of Scotland, and a second near Christiansund. Falling all day.

Thursday, November 17.

Weather fine and bright except in the extreme N. of these Islands and the countries to the eastward of the North Sea. Fine on the whole during day, but occasional showers falling.

Temperature fallen generally—most in the N.E.; readings ranging from 51° at Pembroke to 37° at Stornoway. Maxima varying from below 40° in the Shetlands to 56° in S. Ireland.

Wind northerly in Scotland and the W. of Norway, westerly elsewhere, blowing strongly on most coasts. Veering to N.W. in Ireland and England later, and falling a little lighter.

Sea rough round our coasts and high off the S. of Norway.

Barometer rising except over France, the S.E. of England, and the countries to the eastward of the North Sea. Pressure highest in S. France, lowest in N. Sweden. Rising all day.

Friday, November 18.

Weather rainy all over Ireland, fine in most other places, though with a good deal of fog and mist in different localities. Snow falling in Norway. Rain and cloud extending over us from the westward.

Temperature rising in Ireland, fallen very fast elsewhere—as much as 15° over central England; readings ranging from 54° at Valencia to 31° at York and Nairn. Rising fast later.

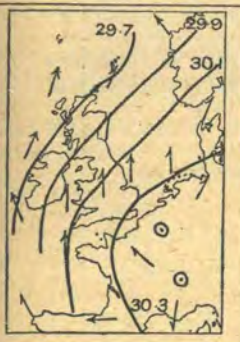
Wind southerly on our W. and N. coasts, very light and variable over England, and northerly in Scandinavia. Southerly wind increasing and spreading all over us during the day.

Sea rough on our S.W. coasts and in the W. of Norway, high in the Skager Rack.

Barometer risen fast over the greater part of western Europe, but falling again at Valencia. Large anticyclone over France and England. Depression appearing on our N.W. coasts later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 19.

Weather still fine in parts of France, but cloudy or dull in all other places with mist and rain at some western stations. Fine over the E. and S.E. of England all day, dull elsewhere.

Temperature risen generally—very fast in the E.—as much as 25° at Leith. Maxima varying between 50° and 57°.

Wind varying between S.E. and S.W. all over the Kingdom and blowing freshly or strongly generally. Strong gales experienced in the W. and N. later in day.

Sea rough or high in the S.W., W., and N.

Barometer falling except in the E. of France. Anticyclone still shown over France with large depression off our N.W. coasts. Mercury falling all day—quickly in W.

Sunday, November 20.

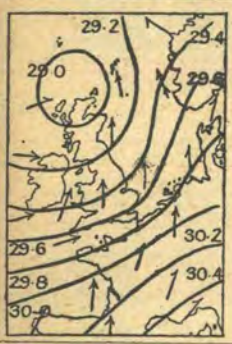
Weather wet in the Hebrides, fine in most other places. Rainy dull weather extending to most western stations later, but fine all day in S.E.

Temperature risen in the W. and N. of France and the S. of England, fallen elsewhere; readings ranging from 53° in the S. to 44° at Aberdeen. Maxima between 50° and 59°.

Wind south-westerly in nearly all places, varying from a light breeze in the S.E. to a moderate or fresh gale in the N. and over Scandinavia. Southerly gales in W. and N. later.

Sea rough in the W. and N.

Barometer falling in most places, but inclined to rise over W. France and our N.W. coasts. Readings highest over France with large depression to the northward of Scotland. Fresh depression in W. Ireland later.



Monday, November 21.

Weather fine in Ireland, Wales, and the E. of France, dull and rainy elsewhere; rain recommencing in Ireland later, but sky clearing over England and Scotland.

Temperature falling in the W. and S.W., rising elsewhere; readings ranging from 44° at Parsonstown to 52° in the S.E. of England. High all day, and maxima between 50° and 59°.

Wind westerly on our western coasts, and south-westerly to southerly in E. and N.; strong generally and blowing a gale in the S. and E. Backing to S.S.E. at Valencia later and rising to a gale.

Sea rough in the W., S., and N.

Barometer rising in Ireland, falling quickly elsewhere, and large depression shown over N. Scotland. Depression moving northward later, and mercury rising in most places, but new disturbance appearing in the W., and fresh fall occurring.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; → = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

Values for each Station in Scotland, N. and the Channel Islands.

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	51	30	48·4	39·9	44·2	+3·0	7	0·69	+0·08	*	*
	Stornoway	55	29	49·7	39·9	44·8	+2·8	6	2·07	+1·07	30	48
	Wick	54	33	49·4	38·4	43·9	+2·4	4	0·38	−0·38	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	59	44	56·0	46·7	51·4	+3·5	6	0·47	−0·24	?	?

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	56	31	51·6	40·9	46·3	+ 6·3	5	0·97	+0·46	*	*
	Aberdeen	54	32	50·9	40·3	45·6	+ 4·6	6	0·53	−0·17	14	26
	Leith	58	27	56·1	40·1	48·1	+ 7·6	6	0·56	+0·08	*	*
2. ENGLAND, N.E.	Alnwick Castle	55	28	52·1	38·4	45·3	+ 3·6	6	0·37	?	*	*
	Shields	56	32	53·1	40·7	46·9	+ 5·0	4	0·25	−0·42	*	*
	Durham	57	27	51·5	39·6	45·6	+ 2·8	4	0·20	−0·52	13	23
	York	57	31	54·0	39·3	46·7	+ 4·6	5	0·39	−0·17	13	23
	Spurn Head	59	38	52·9	42·4	47·7	+ 5·7	3	0·34	?	*	*
	Brigg‡ ℳ	57	29	?53·2	?39·7	?46·5	? + 3·6	4	0·66	?	15	26
3. ENGLAND, E.	Hillington ℳ	55	32	51·9	41·5	46·7	+ 4·2	4	0·49	−0·06	11	19
	Yarmouth	55	39	51·6	42·6	47·1	+ 4·1	4	0·31	−0·44	*	*
	Geldeston	55	37	52·6	43·0	47·8	+ 4·9	6	0·25	−0·35	27	45
	Cambridge	58	32	54·1	40·4	47·3	+ 5·0	4	0·25	−0·14	27	45
	Rothamsted	56	32	51·8	41·0	46·4	+ 3·4	7	0·91	+0·46	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	42	52·1	43·3	47·7	+ 5·7	4	0·64	+0·14	*	*
	Nottingham	58	31	54·4	39·9	47·2	+ 4·7	5	0·67	+0·19	*	*
	Loughborough	57	31	53·8	41·1	47·4	+ 4·9	5	0·50	+0·01	*	*
	Leicester	55	31	52·6	41·8	47·2	+ 5·2	4	0·52	+0·04	20	34
	Birmingham (Oscott)	55	35	52·3	42·1	47·2	+ 4·4	4	0·46	−0·07	*	*
	Cheadle ℳ	53	34	50·8	40·8	45·8	+ 2·5	6	1·06	?	*	*
	Churchstoke ℳ	56	32	52·8	41·7	47·3	+ 3·8	7	0·96	?	13	22
	Hereford ℳ	57	33	54·4	43·6	49·0	+ 5·7	4	0·67	+0·05	*	*
	Cirencester	56	30	53·7	40·1	47·9	+ 5·2	6	0·73	+0·13	?10	?17
	Oxford	59	36	54·9	43·3	49·1	+ 6·6	4	0·42	+0·01	26	43
5. ENGLAND, S.	London†	59	33	56·6	42·3	49·5	+ 6·4	4	0·36	−0·06	19	31
	Marlborough ℳ	56	31	52·6	41·5	47·1	+ 4·0	5	0·77	+0·17	23	38
	Strathfield Turgiss ℳ	58	32	54·4	42·1	48·3	+ 5·0	5	0·83	+0·35	*	*
	Dover	56	40	53·1	46·0	49·6	+ 5·7	3	0·39	−0·01	*	*
	Hastings (St. Leonard's)	55	39	53·2	46·0	49·6	+ 5·7	3	0·49	−0·16	*	*
	Southampton	58	35	54·9	45·2	50·1	+ 6·1	6	1·15	?	18	29
	Hurst Castle	57	39	54·6	46·0	50·3	+ 5·6	4	0·70	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §										*	*
	Glasgow	54	31	52·1	41·2	46·7	+ 4·7	6	0·90	+0·05	14	25
	Ardrossan	54	31	52·3	42·4	47·4	+ 5·3	7	0·83	−0·07	*	*
	Silloth (Cumberland)	56	28	52·5	43·3	47·9	+ 5·0	5	1·03	+0·42	8	14
	Douglas (Isle of Man)	56	31	53·5	44·8	49·2	+ 5·7	7	1·14	+0·14	16	28
7. ENGLAND, N.W.	Barrow-in-Furness	54	34	52·7	42·0	47·4	+ 4·5	6	0·84	?	*	*
	Stonyhurst	57	31	53·0	40·5	46·8	+ 4·3	6	0·99	−0·14	11	19
	Blackpool ℳ	56	30	53·2	40·2	46·7	+ 3·7	6	1·05	+0·35	*	*
	Manchester	55	33	51·0	40·9	46·0	+ 3·9	6	1·13	+0·33	*	*
	Liverpool Obsr (Bidston)	58	38	55·1	43·7	49·4	+ 7·3	6	0·56	+0·02	*	*
	Llandudno ℳ											
	Holyhead	55	39	54·0	46·9	50·5	+ 6·0	7	1·01	+0·31	*	*
8. ENGLAND, S.W.	Pembroke	56	44	54·6	49·1	51·9	+ 6·0	7	1·23	+0·33	18	30
	Arlington (N. Devon)	56	34	53·6	42·1	47·9	+ 2·7	7	2·21	?	*	*
	Falmouth	58	48	56·0	49·5	52·8	+ 5·5	6	1·50	+0·30	22	35
	Plymouth	58	39	56·8	46·9	51·9	+ 5·6	6	0·89	+0·10	15	23
	Prawle Point	56	44	55·1	47·0	51·1	+ 5·0	5	0·47	?	*	*
9. IRELAND, N.	Londonderry	56	33	53·4	38·9	46·2	+ 3·2	7	1·17	+0·32	*	*
	Mullaghmore	57	44	52·7	46·6	49·7	+ 6·7	7	1·59	?	*	*
	Markree Castle	55	31	53·8	40·5	47·2	+ 3·9	7	0·72	−0·07	18	32
	Brookeborough	55	31	52·3	40·7	47·5	+ 4·5	6	0·93	?	*	*
	Armagh	56	36	53·0	41·5	47·3	+ 4·1	7	0·58	−0·02	19	33
	Donaghadee	55	32	53·6	43·1	48·4	+ 5·4	7	0·52	?	*	*
10. IRELAND, S.	Dublin	58	38	55·5	45·6	50·6	+ 7·0	6	0·35	−0·28	24	41
	Parsonstown	57	36	54·6	43·3	49·0	+ 5·5	6	0·91	+0·31	19	32
	Waterford	57	35	54·9	45·5	50·2	+ 8·2	7	1·13	+0·21	*	*
	Roche's Point	56	45	55·7	47·9	51·8	+ 7·3	7	2·24	+1·09	*	*
	Valencia	58	44	56·4	47·6	52·0	+ 7·2	7	2·49	+1·38	13	22
	Foynes	58	43	55·2	46·4	50·8	+ 7·0	6	1·13	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

(OFFICIAL COPY.)

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 47.] WEEK ENDING MONDAY, NOVEMBER 28, 1881. [*Price 2d.* [*Annual subscription, post paid*, 12*s.* 6*d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Landale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	32	48	37	43	3 above.	5	8	3 more.	14	27
	2. ENGLAND, N.E.	55	31	50	39	45	3 above.	6	10	3 more.	14	26
	3. ENGLAND, E.	58	35	53	41	47	5 above.	5	10	4 more.	16	29
	4. MID. COUNTIES	59	32	53	40	46	4 above.	6	12	4 more.	17	29
	5. ENGLAND, S.	58	32	54	44	49	6 above.	6	20	14 more.	12	21
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	55	34	50	41	45	4 above.	6	20	6 more.	7	14
	7. ENGLAND, N.W.	61	34	51	42	46	4 above.	6	18	10 more.	8	15
	8. ENGLAND, S.W.	58	35	53	44	49	3 above.	6	20	1 more.	15	25
	9. IRELAND, N.	57	31	50	38	44	1 above.	6	16	9 more.	16	28
	10. IRELAND, S.	59	31	52	40	46	2 above.	6	17	8 more.	21	37

General Remarks.

Weather has been generally rough, squally, and unsettled. Heavy rain has fallen in nearly all places; in many localities frequent and vivid lightning has been observed, and in some districts thunderstorms have been experienced.

Temperature has again been above the mean, the excess varying from 6° in "England, S." to only 1° in "Ireland, N." The maximum readings ranged from 54° in "Scotland, E." to 59° over central England and in "Ireland, S.," and to 61° in "England, N.W."; while the minima, which occurred generally on the 26th, were as low as 31° in Ireland and the N.E. of England, and from 32° to 35° elsewhere.

Rainfall has been more than the mean in all districts, the excess being most striking in Ireland and the W. and S. of England.

Bright sunshine shows a decrease in nearly all places; the percentages were very low, ranging from 14 in "Scotland, W." to 37 in "Ireland, S."

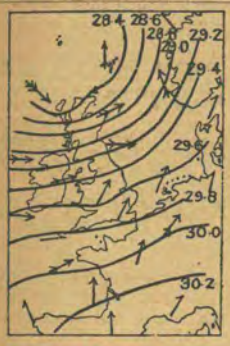
Depressions observed.—This period has been marked by exceedingly rapid changes in pressure accompanied by furious gales. On the 22nd, a very deep depression lay off the N. of Scotland, causing exceptionally heavy gales at all our more northern stations and fresh gales in the S. As this disturbance travelled towards Scandinavia the violence of the wind abated, but on the 24th, the barometer fell again quickly in the W. and strong southerly winds and gales were experienced on all our western and north-western coasts. On the following day the wind was generally moderate, but another, and still deeper, depression approaching us from the Atlantic during the 26th and 27th, southerly and south-westerly gales of great force again set in and raged with slowly decreasing energy until the morning of the 28th.

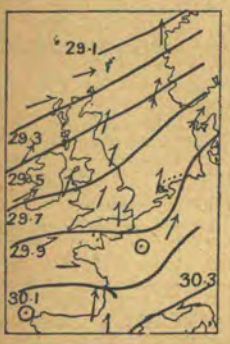
Q 8828. 150.—12/81. Wt. 230. E. & S.

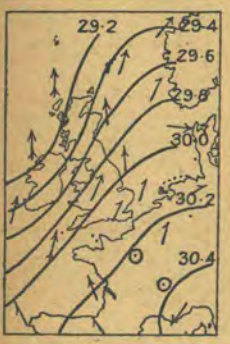
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending November 28, 1881.

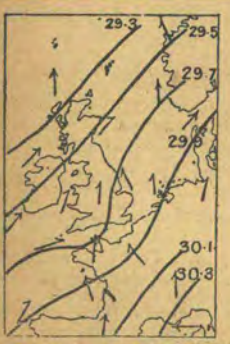
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 22.

Weather exceedingly rough; sky moderately clear over a large part of Ireland and England, but cloudy or dull generally, with rain in many places. Showers occurring generally during day, but with bright intervals.

Temperature fallen in the N. and N.W., risen in the S.; readings ranging from 55° at Dover, to 44° in the N. Maxima varying between 45° and 55°. Brisk decrease taking place in evening.

Wind west-south-westerly to south-westerly on most of our coasts, and southerly in Norway, blowing a heavy gale on all our more northern and north-western coasts, and in S. Scandinavia, strongly elsewhere. Veering to westward on our coasts later.

Sea rough in the W. and S., and high in the N. and S.W.

Barometer falling fast except over France and our south-western and southern coasts. Very deep depression shown to the northward of Scotland. Disturbance passing away later, and barometer rising fast.

Wednesday, November 23.

Weather fine at some north-eastern stations, cloudy or dull generally, with rain in many places. Showers again prevalent during day, but weather fair on the whole.

Temperature fallen a few degrees generally; ranging from 52° at Prawle Point, to 39° at Nairn. Maxima between 44° and 56°, but thermometer falling briskly towards evening.

Wind south-westerly on most of our coasts, and southerly in Norway, blowing lightly or strongly on our coasts, and reaching a gale in S. Scandinavia. Veering to W. later, but blowing freshly or strongly.

Sea rough in the W. and S.W., and high on the Norwegian coast.

Barometer rising except over France and our S. coast,—very quickly in N. Scotland. Disturbance in the N. disappearing over Norway. Large area of high pressure in S. France. Rising all day.

Thursday, November 24.

Weather fine in some parts of France, N. Germany, and Denmark, dull and unsettled elsewhere with rain in N.W. Cloudy and showery all day.

Temperature risen except in the S.E. of England and N.E. of France; readings ranging from 54° in the S.W. to 43° in the Shetlands. Maxima between 47° and 55°.

Wind south-westerly to southerly all over the Kingdom, increasing in force from a moderate gale on the E. coast of England to a strong gale in the N.W. of Ireland. South-westerly strong winds and gales all day.

Sea rough to high all round our W. and N. and S. coasts.

Barometer rising over France, the S.E. of England, and the eastern shores of the North Sea, falling elsewhere—quickly in the N.W.—and large depression approaching Scotland. Barometer recovering in W. later, still falling in E.

Friday, November 25.

Weather fine in some parts of Ireland, France, and the E. of Scotland, cloudy or dull elsewhere with rain in the S.E. Rain holding all day in the S.E. and E. but sky clearing in the N.W.

Temperature fallen except in the S.E. and over France; readings ranging from 54° at Jersey to 39° at Parsonstown. Maxima varying between 45° and 55°.

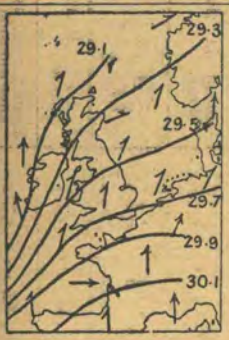
Wind again south-westerly and southerly on nearly all coasts; blowing lightly or moderately in most places but reaching a gale over the Bay of Biscay and at Valencia and Stornoway. Rather squally all day.

Sea rough in S., W., and N.

Barometer rising in the N.W. and N., falling elsewhere. Pressure highest in the S.E. of France, lowest to the northward of Scotland. Pressure giving way all day.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.



CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, November 26.

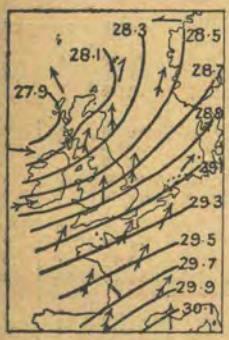
Weather fine on the whole over Great Britain, but dull and wet on our S.W. coasts and over the N.W. of France. Weather gradually becoming overcast everywhere and heavy rain falling at night.

Temperature rising in S. Ireland, falling quickly elsewhere; readings ranging from 49° at Valencia to 34° at Aberdeen. Maxima between 45° and 56°.

Wind southerly and south-westerly all over the kingdom, strong in the S. of Ireland and apparently rising quickly. South-westerly and southerly gales spreading all over the kingdom during day and evening.

Sea rough to high in the S. and W.

Barometer rising in parts of France, falling elsewhere—very quickly in W. Ireland. Deep depression advancing towards our W. coasts and barometer falling with great rapidity during day.



Sunday, November 27.

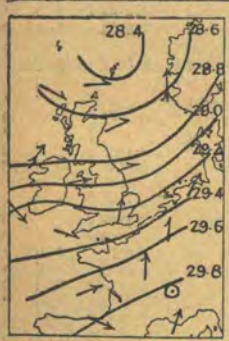
Weather squally and very unsettled, hail and rain falling over Ireland and W. Scotland, sky nearly clear elsewhere. Heavy showers and squalls all day.

Temperature risen several degrees, readings ranging from 51° in the S.E. to 43° at Nairn. Maxima high, generally between 50° and 59°.

Wind westerly in Ireland, south-westerly and southerly elsewhere, blowing a severe squally gale in all places. Veering somewhat later, but gale again blowing at night.

Sea exceedingly rough.

Barometer falling with great rapidity, decrease varying from 1·29 ins. at Nairn to 0·13 ins. at Toulon. Very deep depression off our N.W. coasts. Depression travelling northward later, and mercury rising.



Monday, November 28.

Weather moderately fine in most districts. Fair in the E. during greater part of day, but hail and rain falling in the W. and N.

Temperature changing irregularly; readings varying between 59° in the S. and 39° at Aberdeen. Maxima ranging between 45° and 54°.

Wind westerly in the W. and south-westerly and southerly in the E. and over the North Sea. Strong to a gale on all except our northern coasts. Fresh westerly winds all day.

Sea rough except off Scotland.

Barometer rising everywhere—very quickly in the W. Disturbance in the N. moving slowly northward and at the same time filling up. Pressure increasing quickly all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	50	40	46·7	41·4	44·1	+2·9	6	1·27	+0·64	•	•
	Stornoway	51	37	46·3	39·3	42·8	+1·3	7	1·43	+0·40	?	?
	Wick	50	35	45·4	36·7	41·1	+0·1	4	0·81	+0·02	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)										•	•
	Jersey (Noirmont)	59	44	55·1	48·0	51·6	+4·6	7	2·22	+1·52	11	18

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	47	33	45·1	37·0	41·1	+ 1·5	5	1·03	+0·53	*	*
	Aberdeen	50	33	46·6	36·3	41·5	+ 1·4	5	0·75	+0·05	14	27
	Leith	54	32	50·9	38·6	44·8	+ 5·3	5	0·68	+0·23	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	31	47·1	37·1	42·1	+ 1·8	6	1·67	?	*	*
	Shields	53	36	49·9	39·9	44·9	+ 4·1	5	0·52	−0·18	*	*
	Durham	52	34	49·2	38·0	43·6	+ 1·6	6	1·05	+0·73	14	27
	York	55	35	51·4	39·6	45·5	+ 4·5	7	0·84	+0·19	15	27
	Spurn Head	53	39	50·4	42·1	46·3	+ 5·0	5	0·78	?	*	*
	Brigg‡ ℳ									?	14	25
3. ENGLAND, E.	Hillington ℳ	58	37	53·3	40·3	46·8	+ 4·8	6	1·28	+0·59	15	27
	Yarmouth	55	40	52·1	42·6	47·4	+ 5·4	3	0·61	−0·19	*	*
	Geldeston	57	40	53·3	43·0	48·2	+ 6·1	3	0·72	+0·12	16	28
	Cambridge	56	35	53·6	39·9	46·8	+ 5·0	5	0·80	+0·30	18	32
	Rothamsted	57	37	53·3	39·6	46·5	+ 4·5	7	1·77	+1·32	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	55	34	52·6	37·7	45·2	+ 3·4	5	1·08	+0·56	*	*
	Nottingham	59	34	53·3	39·1	46·2	+ 4·7	6	0·88	+0·40	*	*
	Loughborough	55	37	51·5	40·9	46·2	+ 4·2	5	1·07	+0·59	*	*
	Leicester	59	36	54·8	40·6	47·7	+ 6·4	7	1·05	+0·57	19	34
	Birmingham (Oscott)	57	35	53·9	38·6	46·3	+ 4·3	4	0·84	+0·29	*	*
	Cheadle ℳ	56	34	51·4	37·8	44·6	+ 2·3	6	1·00	?	*	*
	Churchstoke ℳ	56	35	52·5	38·9	45·7	+ 2·7	6	1·43	?	12	21
	Hereford ℳ	56	36	52·5	41·8	47·2	+ 4·6	6	0·88	+0·26	*	*
	Cirencester	56	32	51·1	38·9	45·0	+ 3·0	6	1·81	+1·21	17	30
	Oxford	58	37	53·6	42·6	48·1	+ 6·1	6	1·77	+1·37	18	32
5. ENGLAND, S.	London†	56	41	55·0	45·0	50·0	+ 7·9	5	1·48	+1·05	11	19
	Marlborough ℳ	54	37	52·2	40·6	46·4	+ 4·4	5	1·95	+1·34	14	24
	Strathfield Turgiss ℳ	58	32	54·6	40·2	47·4	+ 4·9	6	1·71	+1·26	*	*
	Dover	55	42	53·7	45·7	49·7	+ 7·2	6	1·72	+0·82	*	*
	Hastings (St. Leonard's)	56	42	54·0	45·2	49·6	+ 6·6	7	1·53	+0·92	*	*
	Southampton	57	40	55·1	43·3	49·2	+ 5·3	6	2·56	?	12	21
	Hurst Castle	55	42	53·9	46·3	50·1	+ 6·1	6	2·67	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	52	39	47·1	41·8	44·5	+ 2·7	7	4·21	?	*	*
	Glasgow	55	35	49·2	38·4	43·8	+ 2·3	5	1·21	+0·31	5	10
	Ardrossan	52	41	49·7	42·9	46·3	+ 5·2	6	1·01	+0·12	*	*
	Silloth (Cumberland)	52	35	49·5	42·1	45·8	+ 3·8	7	2·07	+1·47	4	8
	Douglas (Isle of Man)	55	34	52·1	41·1	46·6	+ 3·7	6	1·48	+0·48	13	23
7. ENGLAND, N.W.	Barrow-in-Furness	53	40	49·7	43·4	46·6	+ 3·8	6	1·94	?	*	*
	Stonyhurst	54	36	50·0	39·4	44·7	+ 2·7	7	2·44	+1·33	11	20
	Blackpool ℳ	52	36	49·9	41·5	45·7	+ 3·2	6	2·35	+1·65	*	*
	Manchester	54	34	51·4	38·5	45·0	+ 3·8	7	1·47	+0·67	*	*
	Liverpool Obs' (Bidston)	55	35	50·7	41·6	46·2	+ 4·0	7	0·83	+0·34	*	*
	Llandudno ℳ	61	36	54·6	43·1	48·9	+ 4·9	6	1·44	+0·64	5	9
	Holyhead	54	40	51·6	44·4	48·0	+ 4·0	6	1·85	+1·16	*	*
8. ENGLAND, S.W.	Pembroke	55	39	52·3	44·0	48·2	+ 2·7	6	1·76	+0·88	15	26
	Arlington (N. Devon)	55	35	51·3	39·4	45·4	+ 0·9	7	1·86	?	*	*
	Falmouth	58	41	54·6	45·4	50·0	+ 3·5	3	3·04	+1·86	18	31
	Plymouth	57	43	54·3	47·1	50·7	+ 4·7	6	1·70	+0·90	11	19
	Prawle Point	55	40	53·1	45·9	49·5	+ 3·7	6	1·84	?	*	*
9. IRELAND, N.	Londonderry	56	31	49·4	35·8	42·6	− 0·2	6	2·08	+1·27	*	*
	Mullaghmore	55	38	50·4	40·0	45·2	+ 2·3	7	1·62	?	*	*
	Markree Castle	57	32	51·0	38·1	44·6	+ 1·7	7	1·49	+0·79	16	29
	Brookeborough	55	32	48·8	36·8	42·8	− 0·2	6	2·00	?	*	*
	Armagh	56	32	50·3	37·5	43·9	+ 0·9	7	1·06	+0·46	15	27
	Donaghadee	53	32	49·7	37·1	43·4	+ 0·5	5	1·23	?	*	*
10. IRELAND, S.	Dublin	59	35	52·0	40·8	46·4	+ 2·9	5	1·18	+0·58	24	43
	Parsonstown	55	32	50·4	36·4	43·4	+ 0·3	5	1·63	+1·03	24	43
	Waterford	57	31	51·9	40·1	46·0	+ 1·4	7	1·38	+0·44	*	*
	Roche's Point	54	35	52·0	42·7	47·4	+ 3·4	6	2·95	+1·76	*	*
	Valencia	57	38	53·4	41·1	47·3	+ 3·1	7	1·99	+0·84	15	26
	Foynes	55	31	52·6	38·7	45·7	+ 2·2	7	1·20	?	*	*

Stations marked ℳ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL; AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 48.] WEEK ENDING MONDAY, DECEMBER 5, 1881. [*Price 2d.*

[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	56	29	48	37	42	3 above.	4	6	0 (average).	10	21
	2. ENGLAND, N.E.	51	32	47	38	42	2 above.	4	6	1 less.	9	16
	3. ENGLAND, E.	54	31	47	36	42	1 above.	4	5	1 less.	14	25
	4. MID. COUNTIES	54	30	49	37	43	1 above.	4	5	0 (average).	14	26
	5. ENGLAND, S.	55	31	50	39	44	2 above.	4	4	1 less.	11	19
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	54	29	49	39	44	3 above.	4	15	1 more.	7	13
	7. ENGLAND, N.W.	54	32	49	42	45	3 above.	5	12	4 more.	7	14
	8. ENGLAND, S.W.	55	34	52	44	48	2 above.	6	14	5 more.	21	37
	9. IRELAND, N.	53	25	48	36	42	1 below.	6	9	2 more.	18	33
	10. IRELAND, S.	56	28	52	38	45	2 above.	6	18	9 more.	16	30

General Remarks.

Weather has again been dull and unsettled with frequent rain, and at all our western and northern stations heavy squalls.

Temperature was still a little above the mean in all districts except "Ireland, N." The maxima, which occurred generally on the 2nd, varied from 56° at Dublin and Leith, and 55° in the S.W. and S., to only 47° at Alnwick. The minimum reading for the period (25°) was registered at Brookeborough on the 4th, while at most other stations the minima varied between 30° and 35°.

Rainfall has been rather less than the mean in nearly all of the "Wheat-producing Districts," but more in all our south-western and western districts.

Bright sunshine percentages were low, ranging from 13 in "Scotland, W." and 14 in "England, N.W." to 37 in "England, S.W."

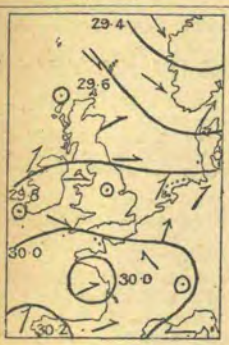
Depressions observed.—At the commencement of the period the barometer was highest over France and lowest in Scandinavia, but after the evening of the 30th, pressure though still rather high over France, became highest over Sweden. Readings were lowest to the westward and north-westward of our Islands. Several depressions passed in a northerly or north-north-easterly direction across or to the westward of our coasts, and the wind, which was at first westerly, was generally between S. and S.W. In force it was chiefly moderate to fresh, but blew a strong gale in the W. and N. on the 30th, and a slight gale on some subsequent occasions.

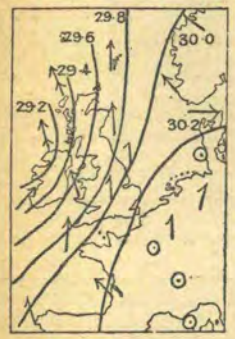
Q 8939. 100.—12/81. Wt. 230. E. & S.

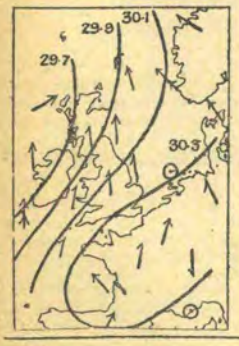
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 5, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.







Weather during the 24 hours succeeding the date of the Charts.

Tuesday, November 29.

Weather fine over nearly the whole Kingdom and the N. of France, dull elsewhere; fine all day over Great Britain, but becoming dull and misty in Ireland.

Temperature fallen generally,—most in S.E.; readings ranging from 45° at Valencia, to 33° at Wick. Rising during day, and maxima varying between 45° and 55°.

Wind south-westerly and westerly, light or moderate on our coasts, strong to a gale in Scandinavia. Backing to S., and increasing to a gale in Ireland later.

Sea rough round the Norwegian coasts.

Barometer risen over the whole of western Europe, increase rapid generally, and exceeding an inch in N. Scotland. Falling rather briskly in Ireland in the evening.

Wednesday, November 30.

Weather cloudy or dull generally, with rain in Ireland and fog or mist in several places. Clearing in Ireland later, but remaining dull elsewhere, and rain spreading to Scotland and W. England.

Temperature risen briskly in most places; readings ranging from 52° at Falmouth, to 35° at York, and maxima in afternoon varying between 45° and 54.

Wind southerly in almost all parts of the country, light in force in the E., but stronger in the W., and reaching a gale in Ireland. Southerly strong winds and gales all day.

Sea rough on all the more western coasts, and high in the N.W.

Barometer falling except over the E. of France and the eastern shores of the North Sea. Large depression off our N.W. coasts, with large anticyclone over France and N. Germany. Rising in Ireland later.

Thursday, December 1.

Weather fine in Ireland, dull and rainy in most other places. Unsettled all day and heavy rain commencing in Ireland.

Temperature fallen fast in Ireland and slightly at most stations; readings ranging from 49° at Pembroke to 35° at Parsonstown. Maxima between 44° and 54°.

Wind south-westerly and westerly in the W. and S.W., south-easterly to southerly in the E. and N., light to fresh in force. Strong southerly winds and gales in Ireland later.

Sea rough off Ushant and off the N.E. of Scotland.

Barometer rising in the W. and N., falling in the S.E. Large anticyclone over the Baltic with main depression off the N.W. coast of Scotland and smaller disturbances over England. Fresh decrease appearing in Ireland later.

Friday, December 2.

Weather cloudy or dull generally with showers of rain in many places. Fine all day in the S.E. but cloudy elsewhere with rain in the extreme W.

Temperature risen except at some of the eastern stations; readings ranging from 53° at Roche's Point to 40° at York. Maxima high, varying between 48° and 56°.

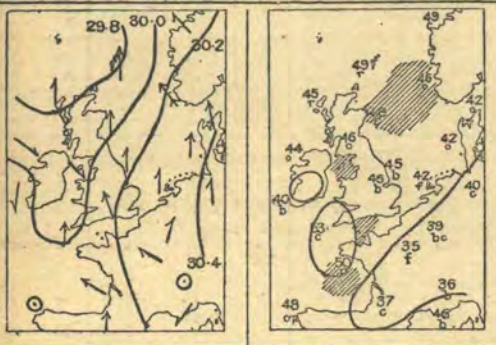
Wind south-westerly and southerly all over the Kingdom; light in the S.E., but increasing to a gale in the W. Little change during day but gale spreading to Stornoway and Aberdeen.

Sea rough all round our S.W., W., and N. coasts.

Barometer rising over France and the S.E. of England, falling in the W. and N. Large depression off our western coasts with smaller disturbances over the North Sea. Depressions moving northward later and slight recovery commencing.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 3.

Weather dull and rainy at all the more northern stations as well as in the S.W. of England and W. France, fine in the S.E. of England and S. of Ireland. Fair day except in the W. of England.

Temperature fallen generally—quickly in S. Ireland; readings ranging from 53° at Falmouth to 40° at Valencia. Maxima varying between 46° and 51°.

Wind shifted to W. and N. in Ireland, but remaining southerly over France, England, and the North Sea; fresh in force generally. Veering to W. in Scotland later; remaining southerly in the E.

Sea rough in the S.W. and N.E.

Barometer rising both in Ireland and Scotland, falling over England. Anticyclone lying over Baltic with large depression to the northward of Scotland, and smaller one near the Bristol Channel. Rising during day except in S.E.

Sunday, December 4.

Weather cloudy or dull, except on our E. coast, fog or mist in many places. Cloudy and rainy in the evening.

Temperature fallen, except in S. Ireland — very quickly in Scotland; and readings ranging from 50° at Prawle Point to 39° at Nairn. Not changing much during day, and maxima varying between 43° and 53°.

Wind between S.E. and S.W. and varying considerably in force; blowing strongly in the W. of Ireland and the S.W. of Norway, but moderately elsewhere. Light S.W. breezes during day.

Sea rough at Valencia, Lorient, and Skudesnaes.

Barometer falling in Ireland and the N. of Scandinavia, rising elsewhere. Falling in Scotland later, but little other change. Pressure still highest over Baltic.

Monday, December 5.

Weather cloudy or dull except at a few Scotch stations with rain in the S.W. and S.E. Sky clearing over greater part of the Kingdom later, but rain falling at Stornoway and Yarmouth at 6 o'clock.

Temperature risen except S. Ireland, and readings ranging from 50° at Hurst Castle to 39° at Aberdeen. Rising during day, but falling briskly again at night.

Wind westerly in the W. and south-westerly to southerly in the E. and over the North Sea; moderate or light in force. Light or moderate breezes prevailing all day.

Sea rough off Skudesnaes and Lorient.

Barometer rising in the W. and N., falling elsewhere. Pressure highest over France and lowest to the northward of Scotland, but small subsidiary depressions crossing England. Rising slowly during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	36	47·3	40·9	44·1	+3·1	6	0·65	−0·05	•	•
	Stornoway	51	33	48·0	37·6	42·8	+1·3	7	0·66	−0·45	8	18
	Wick	50	32	46·1	37·6	41·9	+1·2	3	0·12	−0·63	•	•
CHANNEL ISLANDS	Scilly (St. Mary's)										•	•
	Jersey (Noirmont)	55	39	49·4	42·6	46·0	−0·4	4	0·42	−0·29	19	33

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	51	29	47·6	36·1	41·9	+ 2·0	2	0·06	−0·44	*	*
	Aberdeen	50	34	46·6	37·6	42·1	+ 2·6	5	1·01	+0·31	10	21
	Leith	56	29	48·6	36·6	42·6	+ 3·1	5	0·60	+0·18	*	*
2. ENGLAND, N.E.	Alnwick Castle	47	32	44·9	37·9	41·4	+ 1·6	4	1·34	?	*	*
	Shields	50	36	47·0	38·7	42·9	+ 2·9	5	0·51	−0·19	*	*
	Durham	50	33	46·6	36·0	41·3	+ 0·2	4	0·51	−0·24	6	12
	York	51	34	47·7	36·9	42·3	+ 1·8	3	0·43	−0·16	8	15
	Spurn Head	48	37	46·4	39·0	42·7	+ 1·8	3	0·22	?	*	*
	Brigg‡ 𝔐									?	12	22
3. ENGLAND, E.	Hillington 𝔐	51	32	46·2	35·4	40·8	− 0·5	5	0·43	−0·17	12	22
	Yarmouth	50	36	46·7	38·3	42·5	+ 1·1	2	0·42	−0·38	*	*
	Geldeston	51	35	47·1	37·3	42·2	+ 0·5	3	0·34	−0·26	15	27
	Cambridge	54	31	48·3	36·0	42·2	+ 1·1	3	0·49	+0·04	14	25
	Rothamsted	53	31	48·6	35·2	41·9	+ 0·3	7	0·58	+0·13	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	50	33	47·3	36·9	42·1	+ 0·7	2	0·46	−0·09	*	*
	Nottingham	53	33	49·1	36·3	42·7	+ 1·7	4	0·53	+0·03	*	*
	Loughborough	53	33	49·1	38·2	43·7	+ 2·2	3	0·44	−0·06	*	*
	Leicester	53	34	49·1	36·6	42·9	+ 1·9	4	0·58	+0·09	15	28
	Birmingham (Oscott)	52	35	47·9	35·8	41·9	+ 0·1	3	0·37	−0·22	*	*
	Cheadle 𝔐	50	35	46·8	36·3	41·6	− 0·8	4	0·68	?	*	*
	Churchstoke 𝔐	51	35	48·6	38·2	43·4	+ 0·5	4	0·68	?	11	20
	Hereford 𝔐	54	35	50·4	40·2	45·3	+ 3·1	4	0·30	−0·36	*	*
	Cirencester	52	30	48·3	35·8	42·1	+ 0·1	6	0·54	−0·10	15	27
	Oxford	54	37	49·4	40·0	44·7	+ 2·7	4	0·49	+0·09	16	29
5. ENGLAND, S.	London†	55	35	50·1	38·9	44·5	+ 2·5	4	0·34	−0·10	5	9
	Marlborough 𝔐	52	33	48·7	35·7	42·2	+ 0·5	5	0·56	−0·06	12	21
	Strathfield Turgiss 𝔐	54	31	49·4	34·0	41·7	− 0·3	4	0·29	−0·25	*	*
	Dover	52	40	48·4	41·1	44·8	+ 3·1	4	0·23	−0·66	*	*
	Hastings (St. Leonard's)	53	37	49·6	40·2	44·9	+ 2·8	4	0·37	−0·23	*	*
	Southampton	54	33	50·3	38·1	44·2	+ 0·7	6	0·48	?	15	27
	Hurst Castle	53	40	51·0	42·1	46·6	+ 3·0	4	0·58	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	54	33	48·2	39·0	43·6	+ 2·1	7	3·58	?	*	*
	Glasgow	52	29	48·8	37·4	43·1	+ 2·1	5	0·57	−0·36	1	2
	Ardrossan	51	33	48·9	40·3	44·6	+ 3·6	4	1·00	+0·11	*	*
	Silloth (Cumberland)	53	34	48·3	40·8	44·6	+ 2·9	3	0·94	+0·31	7	1[illegible]
	Douglas (Isle of Man)	52	31	50·1	38·9	44·5	+ 2·0	5	1·41	+0·40	13	2[illegible]
7. ENGLAND, N.W.	Barrow-in-Furness	51	41	48·7	43·0	45·9	+ 3·4	6	1·08	?	*	*
	Stonyhurst	50	35	47·6	38·5	43·6	+ 1·7	6	1·21	+0·10	4	8
	Blackpool 𝔐	51	37	49·4	41·6	45·5	+ 3·5	6	0·77	−0·03	*	*
	Manchester	52	32	47·1	38·1	42·6	+ 1·6	5	1·05	+0·25	*	*
	Liverpool Obsy (Bidston)	53	38	49·3	42·1	45·7	+ 3·7	5	0·61	+0·16	*	*
	Llandudno 𝔐	54	40	51·1	43·6	47·4	+ 3·7	5	1·60	+0·80	10	19
	Holyhead	53	41	50·1	43·3	46·7	+ 3·8	5	1·72	+0·97	*	*
8. ENGLAND, S.W.	Pembroke	54	43	52·3	45·9	49·1	+ 4·1	7	2·37	+1·48	20	36
	Arlington (N. Devon)	52	36	49·6	40·6	45·1	+ 1·1	6	1·33	?	*	*
	Falmouth	55	43	51·9	45·6	48·8	+ 2·8	6	2·14	+1·04	26	46
	Plymouth	55	34	53·1	42·5	47·8	+ 1·8	7	0·81	+1·01	16	28
	Prawle Point	55	40	52·4	43·4	47·9	+ 2·4	6	0·41	?	*	*
9. IRELAND, N.	Londonderry	53	29	47·7	36·1	41·9	− 0·6	6	0·82	+0·02	*	*
	Mullaghmore	53	35	50·1	38·0	44·1	+ 1·8	6	0·69	?	*	*
	Markree Castle	52	27	47·3	33·1	40·2	− 2·3	7	0·54	+0·17	16	30
	Brookeborough	52	25	46·7	34·3	40·5	− 1·7	6	1·56	?	*	*
	Armagh	53	31	47·5	38·0	42·8	− 0·2	7	1·28	+0·68	19	36
	Donaghadee	53	30	49·1	35·9	42·5	0·0	4	0·77	?	*	*
10. IRELAND, S.	Dublin	56	31	50·9	39·8	45·4	+ 2·4	6	0·61	+0·03	17	31
	Parsonstown	54	29	49·4	34·3	41·9	− 1·1	6	1·54	+0·92	? 19	? 35
	Waterford	54	28	51·4	36·3	43·9	+ 0·4	7	1·71	+0·73	*	*
	Roche's Point	55	33	52·6	37·7	45·2	+ 1·7	6	2·07	+0·87	*	*
	Valencia	55	36	53·3	40·6	47·0	+ 3·1	7	3·10	+1·87	13	24
	Foynes	55	32	52·0	40·4	46·2	+ 2·9	6	2·02	?	*	*

Stations marked 𝔐 are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

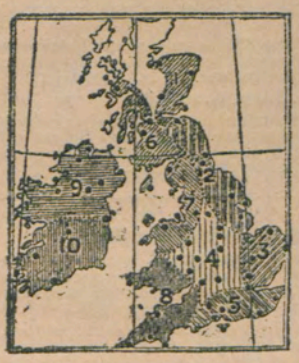
WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 12, 1881.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.



Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	26	42	33	37	2 below.	5	7	1 more.	14	30
	2. ENGLAND, N.E.	50	26	42	34	38	2 below.	4	7	1 more.	9	18
	3. ENGLAND, E.	50	28	41	32	37	5 below.	6	8	2 more.	10	18
	4. MID. COUNTIES	53	20	41	31	36	6 below.	3	3	2 less.	11	21
	5. ENGLAND, S.	53	24	44	34	39	3 below.	5	11	6 more.	7	13
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	24	42	33	37	4 below.	3	10	3 less.	16	32
	7. ENGLAND, N.W.	57	20	43	35	39	3 below.	3	6	1 less.	8	15
	8. ENGLAND, S.W.	55	27	46	37	42	4 below.	5	10	1 more.	22	39
	9. IRELAND, N.	55	15	41	30	36	7 below.	4	5	2 less.	15	29
	10. IRELAND, S.	55	19	42	33	38	6 below.	3	5	5 less.	13	24

General Remarks.

Weather has been very cloudy and cold with rain, sleet, or snow in all parts of the Kingdom.

Temperature has, at length, been below the mean in all districts, the deficit being as much as 7° in "Ireland, N.", 6° over central England, and from 2° to 5° elsewhere. The maxima occurred on the 6th and were as high as 55° in the S.W. and 57° at Llandudno. The thermometer was lowest on the 11th or 12th, when it fell to between 15° and 20° over central Ireland, to 20° at many of the inland English stations, and to between 24° and 28° elsewhere.

Rainfall has been a little more than the mean in most districts of Great Britain, but less in Ireland.

Bright sunshine was generally deficient, the percentages ranging from 39 in "England, S.W.", 32 in "Scotland, W.", and 30 in "Scotland, E." to 13 in "England, S."

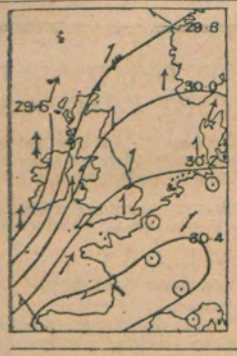
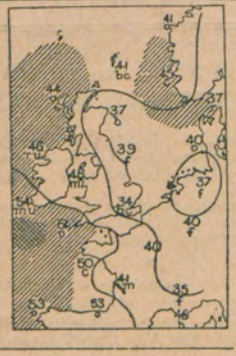
Depressions observed.—At the commencement of the period a deep depression was travelling in a north-north-easterly direction across our western coasts, causing southerly gales in the W. and southerly and south-westerly breezes elsewhere. The wind, however, soon veered to W. and moderated, with a rising barometer. By the 9th, a small shallow depression appeared over England with very variable breezes, but from that date until the end of the period the wind, though still rather variable, was generally northerly.

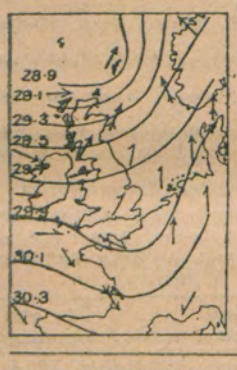
Q 9062. 460.—12/81. Wt. 14790. E. & S.

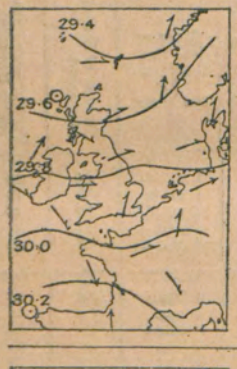
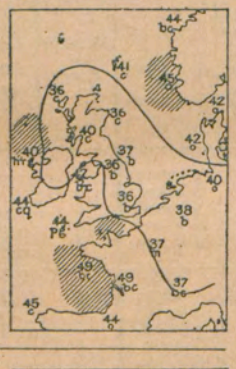
II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending December 12, 1881.

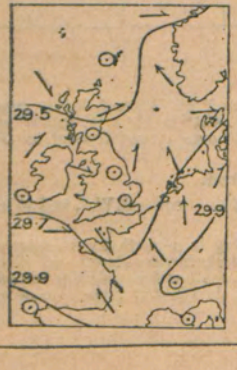
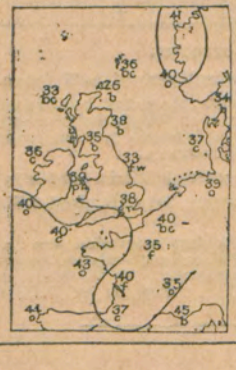
Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 6.

Weather fine in parts of the E. of England and Scotland, cloudy or dull elsewhere with rain in Ireland and mist or fog in some places. Rain falling generally during day, heavily at some stations.

Temperature fallen except in Ireland and the Hebrides; readings ranging from 54° at Valencia to 34° in the S.E. of England. Rising quickly during day and maxima varying between 47° and 55°.

Wind moderate to fresh from S.W. in most places, but strong to a gale from S. in Ireland. Freshening generally later and gale spreading to Scotland and the N. of England.

Sea rough to high in the S.W. and W. and off S. Norway.

Barometer fallen very fast in Ireland and fall spreading quickly over us; readings highest over France and lowest off Valencia. Falling quickly during day and large depression passing north-eastward along our W. coasts.

Wednesday, December 7.

Weather dull and rainy on our extreme W. coasts as well as over France, the S.E. of England, and the eastern shores of the North Sea, but fine elsewhere. Showers occurring generally during day but weather clearing in S.E.

Temperature fallen in the W., risen in the N. and E.; readings ranging from 48° at Pembroke to 41° over central England. Falling somewhat later; maxima hardly exceeding 50° during day and frost experienced in some places at night.

Wind westerly and north-westerly in the W., south-westerly and southerly in the East, and over the North Sea; blowing a gale on our northern coasts and over the Bay of Biscay. Fresh westerly winds all day.

Sea rough in the S.W., W., and N.

Barometer falling except in the W. Large depression shown in the N. and smaller one in the S.E. Pressure increasing during day and both depressions moving away.

Thursday, December 8.

Weather showery in the N. of Ireland, but fair on the whole. Little change occurring during the day, snow and rain showers falling in the W. and N.W.

Temperature fallen several degrees, and readings ranging from 46° at Pembroke to 33° at Nottingham and Parsonstown. Rising somewhat during day, and maxima between 38° and 48°.

Wind between W. and S.W. on our coasts, north-westerly over the Bay of Biscay, and southerly in Scandinavia, moderate in force generally. Moderate or light westerly breezes all day.

Sea rough at some south-western and north-western stations.

Barometer falling in the W. and S.W., rising elsewhere—quickly in the N. Pressure highest over Spain and lowest off the W. coast of Norway. Falling slowly during day.

Friday, December 9.

Weather fine in Scotland and Ireland, cloudy and foggy elsewhere, with rain and gloom over the S.E. of England, and hail showers at Pembroke. Fine all day in N. and W.; cloudy, foggy, and gloomy over England.

Temperature fallen except at a few south-eastern stations; ranging from 40° in the S.W. to 26° at Wick; cold all day, maxima at York and Nottingham only 32°, and sharp frost at night at inland stations.

Wind variable in direction, moderate in force on the continent, light and variable on our coasts. Northerly winds in Ireland later, and calms elsewhere.

Sea slight or moderate.

Barometer falling everywhere—quickly in W. France, uniform and low over these Islands, with slight depressions passing across us. Rising in the W. and N., and falling in the E. later.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 10.

Weather fine at most of our stations, but snow falling in the S.E. and fog prevailing over central England. Gloomy, with drizzling rain all day in the S.E., but fine in W. and N.

Temperature fallen briskly in these Islands, changed irregularly on Continent; ranging from 41° at Holyhead to 25° at Nottingham and 26° at Wick. Rather low all day, maxima varying between 33° and 42° except in W. Ireland where 49° was registered.

Wind light or moderate on our coasts, from the northward generally, but from E. in the S.E.; fresh from S. in the S.W. of France and on the eastern shores of the North Sea. Light northerly breezes holding all day.

Sea rough in Skager Rack.

Barometer falling over France and the Channel, rising elsewhere. Shallow depressions shown,—one over the Channel and a second off the E. coast of England. Rising slowly all day except at Valencia.

Sunday, December 11.

Weather fine in the W. of France and on our S.W. and N.W. coasts, cloudy or dull elsewhere with some fog or mist. Cloudy all day in the E. with rain and mist, fine in the N. and W.

Temperature changed rather irregularly, but risen in the N. and N.W.; readings ranging from 42° at Holyhead to 23° at Parsonstown and 29° at Oxford. Maxima between 34° and 47°.

Wind northerly on our coasts and in the N. of France, south-easterly on the eastern shores of the North Sea. Light or moderate generally. Shifting to N.E. in the N.E. later, little other change.

Sea moderate to smooth except at Toulon.

Barometer rising generally. Pressure highest ovor Sweden with area of low readings over the North Sea, the E. of England, and the Netherlands. Rising all day.

Monday, December 12.

Weather fine in the N. and W., cloudy or dull elsewhere, with rain in London and at York, and hail at Jersey and Leith. Dull and rainy in the E. all day, fine in the W. and N.

Temperature risen over Great Britain, fallen elsewhere; readings ranging from 44° at Holyhead, to 20° at Parsonstown and 33° at Lyons. Maxima varying between 31° at Parsonstown, and 49° at Prawle Point.

Wind north-easterly in the N.E., northerly in the W., and north-westerly in the S., over the Channel, and France. Fresh in the N.E., moderate elsewhere. Hardly any change later.

Sea rough in the N.E., as well as at Corunna and Toulon.

Barometer rising everywhere,—most in the N.E. Depression still shown off E. coast, but slowly filling up while large area of high pressure forming over Scandinavia. Pressure increasing all day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇉ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	47	33	43·4	35·9	39·7	−1·4	7	1·12	+0·42	*	*
	Stornoway	50	27	40·9	31·3	36·1	−5·4	4	1·06	−0·20	15	33
	Wick	47	22	41·7	29·0	35·4	−5·1	4	0·39	−0·33	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	53	37	46·1	41·3	43·7	−2·2	7	2·89	+2·17	10	17

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	48	28	39·4	32·1	35·8	− 4·3	5	0·63	+0·16	*	*
	Aberdeen	48	26	42·0	31·7	36·9	− 2·5	4	0·79	+0·09	14	30
	Leith	53	28	44·4	33·6	39·0	− 0·5	5	0·53	+0·13	*	*
2. ENGLAND, N.E.	Alnwick Castle	46	30	41·0	34·0	37·5	− 2·1	5	1·06	?	*	*
	Shields	48	31	43·1	35·1	39·1	− 0·6	5	0·46	−0·19	*	*
	Durham	48	28	41·3	32·1	36·7	− 3·6	5	1·16	+0·40	13	26
	York	50	26	40·9	32·1	36·5	− 3·6	4	0·48	−0·12	3	6
	Spurn Head	49	31	42·9	34·9	38·9	− 1·4	3	0·53	?	*	*
	Brigg‡ ⚓										12	23
3. ENGLAND, E.	Hillington ⚓	49	28	40·5	31·0	35·8	− 4·9	6	0·63	+0·02	7	13
	Yarmouth	47	30	41·1	32·9	37·0	− 4·0	6	1·35	+0·56	*	*
	Geldeston	48	31	41·9	33·5	37·7	− 3·3	7	0·91	+0·32	13	24
	Cambridge	50	28	41·7	29·9	35·8	− 4·8	4	0·42	−0·06	9	17
	Rothamsted	49	28	40·9	32·6	36·8	− 4·4	6	0·87	+0·37	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	51	26	40·6	31·6	36·1	− 4·8	4	0·39	−0·16	*	*
	Nottingham	52	22	41·3	28·7	35·0	− 5·8	3	0·26	−0·28	*	*
	Loughborough	51	27	40·3	31·5	35·9	− 5·1	3	0·22	−0·29	*	*
	Leicester	51	24	41·3	31·0	36·2	− 4·5	5	0·37	−0·13	9	17
	Birmingham (Oscott)	51	20	40·7	28·5	34·6	− 6·6	2	0·26	−0·34	*	*
	Cheadle ⚓	50	24	40·4	29·9	35·2	− 6·6	3	0·28	?	*	*
	Churchstoke ⚓	52	25	42·4	31·6	37·0	− 5·3	3	0·29	?	14	26
	Hereford ⚓	53	24	43·2	30·9	37·1	− 4·9	2	0·23	−0·45	*	*
	Cirencester	50	22	40·4	30·2	35·3	− 6·7	6	0·48	−0·19	12	22
	Oxford	52	28	42·0	32·1	37·1	− 4·4	3	0·45	+0·05	9	17
5. ENGLAND, S.	London†	51	30	43·1	32·6	37·9	− 3·3	6	0·98	+0·53	4	7
	Marlborough ⚓	51	26	41·7	31·7	36·7	− 4·7	5	0·58	−0·07	8	15
	Strathfield Turgiss ⚓	53	24	42·7	31·5	37·1	− 4·7	2	0·88	+0·39	*	*
	Dover	50	34	44·6	36·7	40·7	− 0·3	6	1·18	+0·83	*	*
	Hastings (St. Leonard's)	51	33	45·0	36·2	40·6	− 1·2	6	2·42	+1·82	*	*
	Southampton	52	29	44·7	33·8	39·3	− 3·7	6	0·87	?	9	16
	Hurst Castle	53	30	45·0	36·9	41·0	− 2·1	5	1·10	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	52	24	38·7	30·4	34·6	− 6·9	4	2·51	?	*	*
	Glasgow	50	26	41·4	33·0	37·4	− 3·4	3	0·70	−0·30	5	10
	Ardrossan	50	27	41·9	34·6	38·3	− 2·5	3	0·84	−0·04	*	*
	Silloth (Cumberland)	50	24	42·2	33·2	36·7	− 4·3	2	0·37	−0·26	15	30
	Douglas (Isle of Man)	51	27	44·2	33·9	39·1	− 3·4	1	0·37	−0·66	28	55
7. ENGLAND, N.W.	Barrow-in-Furness	49	29	43·4	35·9	39·7	− 2·8	4	0·86	?	*	*
	Stonyhurst	50	24	41·0	32·1	36·6	− 4·9	4	1·36	+0·25	9	18
	Blackpool ⚓	49	26	42·8	33·8	38·3	− 3·7	4	0·75	−0·03	*	*
	Manchester	49	20	40·3	29·7	35·0	− 6·0	5	0·65	−0·13	*	*
	Liverpool Obsy (Bidston)	50	28	43·0	34·9	39·0	− 3·0	1	0·12	−0·30	*	*
	Llandudno ⚓	57	31	46·3	36·8	41·6	− 1·7	3	0·22	−0·58	6	11
	Holyhead	52	35	45·6	40·6	43·1	+ 0·2	3	0·52	−0·31	*	*
8. ENGLAND, S.W.	Pembroke	53	33	45·9	40·1	43·0	− 1·5	4	0·71	−0·19	21	39
	Arlington (N. Devon)	52	27	44·4	33·1	38·8	− 4·8	5	1·34	?	*	*
	Falmouth	54	34	45·8	39·1	42·5	− 3·5	6	1·28	+0·28	24	43
	Plymouth	55	29	45·2	35·1	40·2	− 5·7	5	0·74	−0·06	20	36
	Prawle Point	54	33	48·1	37·7	42·9	− 2·6	4	1·13	?	*	*
9. IRELAND, N.	Londonderry	52	20	40·0	29·5	34·8	− 7·5	4	0·41	−0·39	*	*
	Mullaghmore	55	25	44·3	33·4	38·9	− 3·1	4	1·23	?	*	*
	Markree Castle	52	16	39·8	27·0	33·4	− 8·9	5	0·31	−0·40	21	41
	Brookeborough	51	15	39·5	26·4	33·0	− 9·0	2	0·26	?	*	*
	Armagh	51	22	39·5	30·2	34·9	− 7·9	4	0·22	−0·38	8	16
	Donaghadee	52	31	43·3	33·6	38·5	− 3·7	3	0·45	?	*	*
10. IRELAND, S.	Dublin	55	24	40·0	32·9	36·5	− 6·4	2	0·09	−0·46	8	15
	Parsonstown	54	19	38·7	29·7	34·2	− 8·6	3	0·41	−0·24	12	23
	Waterford	53	23	39·4	30·1	34·8	− 8·3	3	0·39	−0·63	*	*
	Roche's Point	53	29	44·9	35·0	40·0	− 3·9	3	0·46	−0·75	*	*
	Valencia	55	29	48·1	37·3	42·7	− 1·2	4	0·61	−0·70	18	33
	Foynes	50	19	40·1	33·0	36·6	− 6·6	4	0·77	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, DECEMBER 19, 1881.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	49	26	41	32	36	3 below.	5	2	3 less.	13	28
	2. ENGLAND, N.E.	44	25	40	32	36	4 below.	6	6	1 less.	16	31
	3. ENGLAND, E.	50	26	43	34	38	2 below.	6	17	11 more.	15	28
	4. MID. COUNTIES	51	22	41	31	36	5 below.	5	18	12 more.	13	25
	5. ENGLAND, S.	54	24	46	36	41	1 below.	6	16	10 more.	14	26
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	48	23	42	33	38	4 below.	6	18	4 more.	8	17
	7. ENGLAND, N.W.	47	24	41	33	37	5 below.	6	16	8 more.	4	8
	8. ENGLAND, S.W.	54	28	47	37	42	2 below.	6	28	19 more.	9	16
	9. IRELAND, N.	46	22	42	32	37	5 below.	7	19	12 more.	16	31
	10. IRELAND, S.	53	18	46	33	39	4 below.	7	20	10 more.	17	33

General Remarks.

Weather has been very unsettled with frequent and heavy rain, hail, or sleet in nearly all places.

Temperature has again been below the mean, the deficit ranging from 1° in "England, S." to 5° at our central and north-western stations. The maxima, which occurred at most places on the 17th, ranged from 44° in the N.E. of England to 54° in the S. and S.W. The minima were registered during the earlier part of the period, when the thermometer fell to 18° at Parsonstown, and to 22° in some parts of central England and northern Ireland.

Rainfall has been a little below the mean in "England, N.E." and "Scotland, E.", but greatly above elsewhere; the excess at our south-western stations was very marked.

Bright sunshine values were generally low, the percentages varying from 8 in "England, N.W." and 16 in "England, S.W.", to 33 in "Ireland, S."

Depressions observed.—From the commencement of the period until the 17th a large but gradually decreasing area of high pressure existed over Scandinavia, while depressions, generally small and shallow, travelled over our western and northern coasts, giving us southerly to south-westerly winds; fresh to strong in the W., and moderate or light elsewhere. By the evening of the 17th, however, the barometer had become highest over France; a depression of considerable depth lay over Scotland, and strong westerly gales were experienced on nearly all our coasts. This disturbance passed eastwards over Scandinavia, the gales in our Islands gradually subsiding.

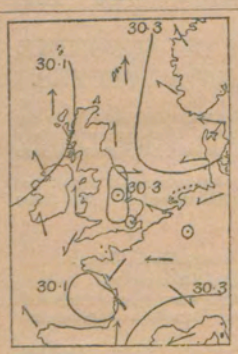
Q 9169 460.—12/81. Wt. 14790. E. & S.

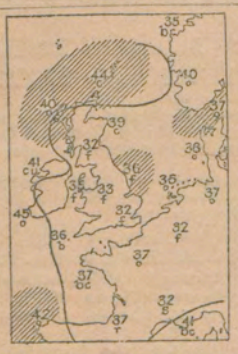
II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 19, 1881.

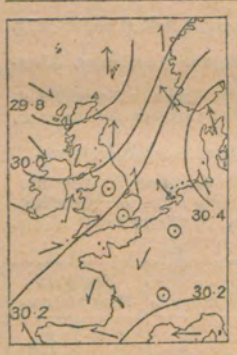
Synoptic Weather Charts.—8 a.m.

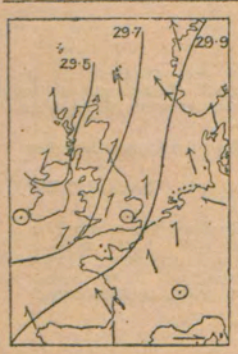
BAROMETER AND WIND.

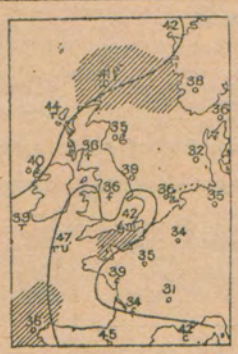
CLOUD, RAIN, SEA, AND TEMPERATURE.











Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 13.

Weather dry in nearly all parts of western Europe, and fine in several places, but thick fog reported over central England. Rain setting in over Ireland later, but fine weather continuing round our E. and S. coasts, and dense fog in London.

Temperature rising fast in Ireland, falling in most other places; readings ranging from 45° at Valencia, to 30° at Parsonstown, and 32° in London. Low all day over central England, maximum being only 33° at Oxford, and Nottingham.

Wind easterly over France and our S. and S.W. coasts, but southerly in the N.W. and N., blowing rather freshly in the Hebrides. Southerly wind increasihg to a gale in the W. later, and spreading eastward.

Sea rough in the N. and N.E.

Barometer rising over England and on the continent generally, but falling in Ireland and Scotland. Large area of high pressure over Sweden, and readings comparatively high and uniform over these Islands, but large depression appearing in N.W. later.

Wednesday, December 14.

Weather fine over parts of England and France, but dull and rainy generally. Fair on the whole during the day, but showers occurring in all parts of the country.

Temperature changed irregularly, and readings ranging from 47° at Pembroke, to 26° at Nottingham. Maxima during day varying between 37° and 47°.

Wind north-westerly on our western coasts, southerly in most other places, and south-easterly on the eastern shores of the North Sea. Blowing strongly in the N. and in Norway, generally moderate elsewhere. Little change later.

Sea very rough between the Shetlands and Norway.

Barometer falling except in France; areas of high pressure reported from the S. of France and from the Baltic, with depressions over our western and northern coasts. Rising somewhat in the W. later.

Thursday, December 15.

Weather fine at several western and northern stations, but cloudy or dull generally, with rain or fog in many places. Dull and unsettled all day except in Scotland.

Temperature fallen generally—most in Scotland, and readings ranging from 45° at Valencia to 26° at York. Rather low all day and maxima varying between 49° in the S. of Ireland and 36° at Aberdeen.

Wind southerly in nearly all places—blowing lightly or moderately on most coasts, but strongly in Denmark and Norway and in the Hebrides. Southerly wind increasing considerably in the W. and N. later, but little other change.

Sea rough in the N.W. and off the Norwegian coast.

Barometer falling everywhere; pressure still highest over the Baltic and lowest to the westward of these Islands, but several small subsidiary depressions shown in the S.W. Falling briskly all day.

Friday, December 16.

Weather fine at some Scotch and Irish stations, cloudy or dull elsewhere, with fog or rain in several places. Fine in the N. and N.W. later, but dull and rainy elsewhere.

Temperature risen generally; readings ranging from 47° at Falmouth to 34° at Leith. Rising during day, and maxima ranging from 38° at Nairn to 50° in the S.W.

Wind varying between S. and S.E.; blowing lightly or moderately in the W., but strongly on both shores of the North Sea. Force rising in S.E., later, but little other change.

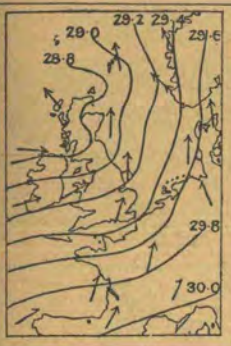
Sea rough in the N.

Barometer steady in the S. of Ireland, falling elsewhere; distribution unchanged area of high pressure lying over Sweden, with shallow depression over and to the westward of these islands. Small disturbance travelling eastward over the S. of England in the evening.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.

Weather during the 24 hours succeeding the date of the Charts.



Saturday, December 17.

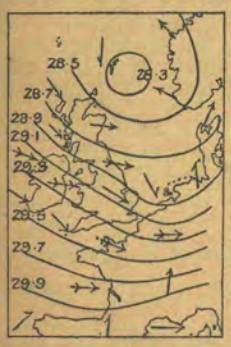
Weather very unsettled; dull and rainy in nearly all parts of western Europe. Showers of rain falling all day except in parts of Scotland.

Temperature risen quickly; readings ranging from 49° at Valencia to 36° at Leith. Maxima again high, varying between 39° at Nairn and 54° at Dover.

Wind very strong on all coasts and reaching a gale at Spurn Head; blowing from W. on our own and the French western coasts, from S.W. and S. in the E., and from S.E. in the N. Severe gale springing up in the W. and S. in the evening.

Sea rough in the W.S. and N.

Barometer fallen very quickly, and large depression shown over Scotland; Wick 28·7 ins. Disturbance changing very little during day, but small subsidiary depressions crossing England from W. to E.



Sunday, December 18.

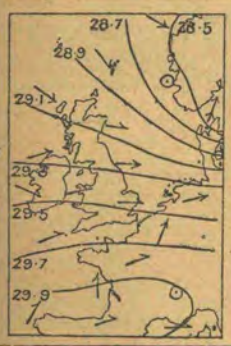
Weather fine generally but cloudy and showery on our W. and N.W. coasts. Fine and bright all day in the S., but hail and snow falling in the N.W.

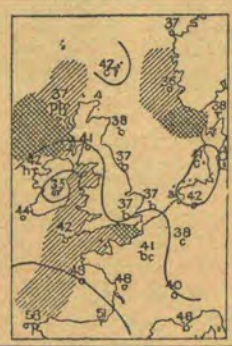
Temperature fallen except in Scotland, and readings ranging from 46° at Jersey, to 34° at Parsonstown. Little change later, and maxima varying between 38° and 46°. Following night rather cold.

Wind north-westerly and westerly on all our own and the French coasts, but drawing into S. and S.E. in Scandinavia. Strong generally, and blowing a gale in the W. and S. Subsiding a little during day.

Sea rough except off our E. coast.

Barometer falling somewhat over France and with great rapidity over the countries to the eastward of the North Sea. Large depression shown near the Shetlands and smaller one near the coast of Holland. Rising all day in these Islands and depressions moving eastward.





Monday, December 19.

Weather on the whole fine and bright, but some rain and hail showers in the N.W. Rain setting in at Valencia later, but weather generally continuing fine.

Temperature risen in the S.W., fallen elsewhere, and readings ranging from 46° at Jersey to 33° at Nottingham. Rising rather briskly during day, and maxima varying between 38° and 50°.

Wind westerly or west north-westerly all over these Islands and the North Sea; blowing freshly or strongly on most coasts. Backing to S.W. and S. in Ireland later.

Sea very rough in the W. and S. and off the coast of Norway.

Barometer rising quickly except in the S.W. Depressions noticed on Sunday passing away over Scandinavia. Decrease in S.W. becoming brisk later, and new depression appearing over Ireland.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟹ = a heavy gale; → = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	45	35	43·4	38·3	40·9	−0·1	7	2·13	+1·28	*	*
	Stornoway	47	33	42·3	35·1	38·7	−2·8	7	1·61	+0·22	3	7
	Wick	45	33	41·4	35·3	38·4	−2·0	4	1·64	+0·94	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55									*	*
	Jersey (Noirmont)	46	36	46·6	38·4	42·5	−3·1	5	1·22	+0·47	15	27

The above observati… in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	49	28	41·0	32·3	36·7	− 3·4	4	0·24	−0·20	*	*
	Aberdeen	43	26	40·4	32·3	36·4	− 2·6	5	0·32	−0·38	13	28
	Leith	45	27	41·7	30·7	36·2	− 3·0	5	0·15	−0·24	*	*
2. ENGLAND, N.E.	Alnwick Castle	40	27	37·7	31·0	34·4	− 4·9	5	0·61	?	*	*
	Shields	43	29	39·9	33·0	36·5	− 2·8	6	0·43	−0·19	*	*
	Durham	41	25	38·4	30·3	34·4	− 5·1	6	0·51	−0·29	16	33
	York	44	25	40·6	30·9	35·8	− 4·1	6	1·06	+0·45	?	?
	Spurn Head	44	28	41·9	34·7	38·3	− 1·6	6	0·43	?	*	*
	Brigg‡ ⚓										15	29
3. ENGLAND, E.	Hillington ⚓	45	28	41·3	33·5	37·4	− 2·7	6	1·54	+0·89	13	25
	Yarmouth	46	33	42·7	35·7	39·2	− 0·8	6	1·24	+0·45	*	*
	Geldeston	47	33	43·6	35·7	39·7	− 0·8	5	1·50	+0·92	16	30
	Cambridge	48	26	42·6	32·3	37·5	− 2·5	5	1·87	+1·31	17	32
	Rothamsted	50	26	43·5	32·7	38·1	− 2·7	7	2·45	+1·79	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	44	25	41·1	30·7	35·9	− 4·4	6	1·06	+0·51	*	*
	Nottingham	44	25	41·0	30·0	35·5	− 4·8	6	1·36	+0·76	*	*
	Loughborough	45	25	41·0	31·8	36·4	− 4·1	6	1·92	+1·34	*	*
	Leicester	45	24	41·7	32·2	37·0	− 3·5	5	1·69	+1·14	16	31
	Birmingham (Oscott)	44	26	40·5	30·6	35·6	− 5·4	4	1·30	+0·68	*	*
	Cheadle ⚓	42	25	39·5	30·1	34·8	− 6·6	5	1·84	?	*	*
	Churchstoke ⚓	45	24	40·3	28·7	34·5	− 7·4	4	2·96	?	7	13
	Hereford ⚓	48	24	41·8	33·0	37·4	− 4·5	6	1·58	+0·88	*	*
	Cirencester	49	22	41·6	30·1	35·9	− 5·7	4	1·75	+1·04	15	28
	Oxford	51	24	42·7	33·7	38·2	− 3·3	5	2·22	+1·73	14	26
5. ENGLAND, S.	London†	53	28	45·4	34·6	40·0	− 1·0	6	1·15	+0·65	11	20
	Marlborough ⚓	51	26	44·0	32·8	38·4	− 3·0	6	2·48	+1·77	19	35
	Strathfield Turgiss ⚓	54	24	45·6	34·0	39·8	− 1·7	5	1·65	+1·13	*	*
	Dover	54	34	46·1	37·4	41·8	+ 0·9	5	0·92	+0·12	*	*
	Hastings (St. Leonard's)	53	36	46·8	38·4	42·6	+ 1·1	4	1·48	+0·83	*	*
	Southampton	54	30	47·4	36·8	42·1	− 0·2	6	1·79	?	12	22
	Hurst Castle	53	35	47·1	40·1	43·6	+ 0·7	6	1·50	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	45	32	42·3	34·8	38·6	− 2·4	7	3·91	?	*	*
	Glasgow	43	29	40·4	32·5	36·5	− 3·7	6	1·11	+0·05	2	4
	Ardrossan	48	31	44·6	33·0	38·8	− 2·2	6	1·36	+0·46	*	*
	Silloth (Cumberland)	44	23	40·0	30·6	35·8	− 4·5	5	0·61	−0·09	10	20
	Douglas (Isle of Man)	47	27	43·5	31·7	37·6	− 4·6	7	2·10	+1·04	13	26
7. ENGLAND, N.W.	Barrow-in-Furness	45	28	43·0	33·7	38·4	− 3·4	6	1·04	?	*	*
	Stonyhurst	43	25	39·4	31·7	35·6	− 6·9	7	1·31	+0·20	4	8
	Blackpool ⚓	45	24	40·9	30·9	35·9	− 5·9	7	1·59	+0·84	*	*
	Manchester	43	24	39·4	30·5	35·0	− 6·0	6	2·09	+1·29	*	*
	Liverpool Obsy (Bidston)	44	28	40·1	32·7	36·4	− 5·5	5	1·60	+1·11	*	*
	Llandudno ⚓											
	Holyhead	47	33	44·4	36·6	40·5	− 3·0	7	2·11	+1·20	*	*
8. ENGLAND, S.W.	Pembroke	50	36	47·9	38·0	43·0	0·0	6	2·52	+1·62	14	26
	Arlington (N. Devon)	51	28	44·0	33·9	39·0	− 4·3	6	4·61	?	*	*
	Falmouth	54	35	48·1	39·0	43·6	− 1·4	7	3·16	+2·20	3	5
	Plymouth	54	29	48·8	35·5	42·2	− 3·3	6	1·87	+1·06	9	16
	Prawle Point	53	34	48·1	37·1	42·6	− 2·6	6	1·81	?	*	*
9. IRELAND, N.	Londonderry	43	23	41·3	30·1	35·7	− 6·3	7	1·81	+0·96	*	*
	Mullaghmore	46	30	44·6	36·1	40·4	− 1·6	7	2·06	?	*	*
	Markree Castle	44	22	41·9	30·0	36·0	− 6·2	6	1·34	+0·64	13	26
	Brookeborough	42	22	40·2	30·0	35·1	− 6·9	6	2·40	?	*	*
	Armagh	43	26	39·9	31·7	35·8	− 7·1	6	1·29	+0·74	18	36
	Donaghadee	45	28	42·6	33·1	37·9	− 4·1	7	2·34	?	*	*
10. IRELAND, S.	Dublin	48	25	42·6	32·7	37·7	− 5·2	6	0·81	+0·26	19	36
	Parsonstown	45	18	42·1	29·1	35·6	− 6·9	7	1·74	+1·04	21	40
	Waterford	48	25	44·9	31·6	38·3	− 4·7	7	1·55	+0·50	*	*
	Roche's Point	49	30	47·4	35·4	41·4	− 2·2	6	1·89	+0·64	*	*
	Valencia	53	29	49·3	36·7	43·0	− 0·5	7	3·20	+1·78	12	23
	Foynes	49	23	46·1	34·4	40·3	− 2·7	7	2·77	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the difference from the mean for the period in the district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

VOL. IV. No. 51.] WEEK ENDING MONDAY, DECEMBER 26, 1881. [*Price 2d.*
[*Annual subscription, post paid, 12s. 6d.*

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough Leicester, Birmingham (Oscott), Cheadle, Churchstoke. Hereford, Cirencester Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—*The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	54	24	43	32	38	2 below.	2	1	4 less.	11	24
	2. ENGLAND, N.E.	52	24	42	32	37	2 below.	3	4	3 less.	7	14
	3. ENGLAND, E.	47	20	41	31	36	4 below.	3	3	3 less.	9	16
	4. MID. COUNTIES	50	21	41	31	36	5 below.	2	3	3 less.	13	28
	5. ENGLAND, S.	47	20	43	33	38	3 below.	2	1	6 less.	10	20
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	53	20	43	35	39	2 below,	4	11	2 less.	5	9
	7. ENGLAND, N.W.	53	21	43	34	38	3 below.	4	8	1 more.	1	1
	8. ENGLAND, S.W.	52	25	47	37	33	2 below.	3	2	8 less.	10	19
	9. IRELAND, N.	53	19	45	35	40	2 below.	4	5	3 less.	12	23
	10. IRELAND, S.	53	21	47	36	42	1 below.	4	5	5 less.	11	21

General Remarks.

Weather has been very cloudy and dull; but, although the atmosphere has been extremely humid, the rainfall has been slight.

Temperature has again been below the mean, the deficit ranging from 5° in the "Midland Counties" to 1° in "Ireland, S." The thermometer was highest on the 25th, when it rose to 54° at Nairn and to between 47° and 53° in most other places. The minima, which were generally registered on the 23rd, were as low as 19° in central Ireland and to 20° in many parts of England.

Rainfall has been less than the mean in all districts except "England, N.W."

Bright sunshine shows a decrease at nearly all stations; the percentages were very low, ranging from 25 in the "Midland Counties" to only 1 in "England, N.W."

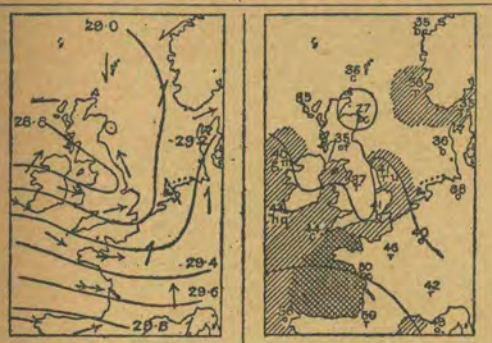
Depressions observed.—At the commencement of the period the barometer was rather low in all parts of our area; a depression was shown, passing from W. to E., over England, the wind being strong to a gale from W. over all our more southern counties, and from S.E. in the E. On the following day the wind had veered to N.W. and fallen light, but on the 22nd, owing to the appearance of a depression off the N.W. of France, it shifted to the eastward on all except the Scotch coasts. On the 23rd, this depression had disappeared and an area of high pressure had formed over England, so that the winds were very light and variable; but by the 24th, the barometer was falling quickly in the W. and N., and southerly winds, blowing a gale in Ireland and Scotland, had sprung up at all our stations. Towards the end of the week the barometer was again high and rising, and westerly winds, generally light or moderate, were reported from all our coasts.

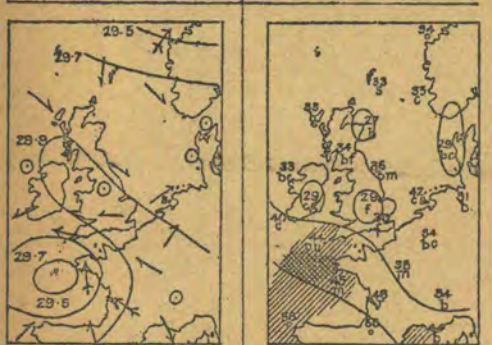
Q 9225. 100.—12/81. Wt. 230. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE
during the Week ending December 26, 1881.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 20.

Weather very unsettled, fine locally in the S.E. of England, the N.W. of France, and parts of Scotland. Cloudy, dull, and showery elsewhere. Very little change during day.

Temperature fallen fast in the N., risen in the S.; readings varying between 26° at Wick, and 45° at Dover. Frost holding in Scotland during day, and little change generally; maxima varying from 31° at Nairn, to 47° at Valencia.

Wind westerly and strong to a gale over Ireland, France, and the S. of England, but drawing into S.E. on our E. coast, and into E. in the N., where it was very light. Severe westerly gale experienced in the S. and S.W. at night.

Sea rough except in the N.

Barometer rising briskly in Scandinavia, falling quickly elsewhere; large elongated depression passing from the N. of Ireland south-eastwards towards the Netherlands. Rising during the day except in the E., and depression continuing its course.

Wednesday, December 21.

Weather dull with fog or rain at our N. and E. stations, but finer than of late elsewhere. Weather fine generally by the evening.

Temperature risen in the N. and N.W., fallen elsewhere, and readings ranging from 44° at Pembroke, to 28° at Aberdeen. Maxima varying between 36° and 49°, but thermometer falling again in the evening.

Wind light and variable over Scotland, north-westerly or westerly in other parts of the Kingdom and over France. Blowing freshly or strongly in many places. North-westerly breezes springing up in Scotland later, little other change.

Sea rough in the W. and S.W.

Barometer risen everywhere, and depression of 20th passing away over N. Germany. Readings highest over Spain. Continuing to rise slowly all day.

Thursday, December 22.

Weather fine at most of our stations though very foggy over the inland parts of England, but sky overcast with rain on our S.W. coasts and in the N.W. of France. Weather very fine all day, though with fog inland.

Temperature fallen briskly except in the S.W.; readings ranging from 44° at Falmouth to 29° at Nottingham. Rising later, but maxima below 40° at Central and N. stations and sharp frost prevailing at night.

Wind light from N.W. in most of our districts with calms over Central England, but south-easterly gales blowing in W. France and strong easterly winds on our S.W. coasts. Easterly winds holding all day in the S.

Sea very rough in the S.W.

Barometer falling briskly in the S.W. and large depression advancing towards the N.W. of France from the Atlantic. Rising elsewhere and area of high pressure stretching across Ireland and England. Disturbance passing away over France later, and barometer rising in these Islands.

Friday, December 23.

Weather fair and dry generally, but dense fog reported from some places. Dull gloomy weather appearing in the W. later, and though continuing fine generally dense fog still reported from many places.

Temperature fallen several degrees, and readings ranging from 41° at Valencia to 23° at Nottingham, but rise beginning in extreme W. Maxima low in the E. but high in the W., varying from 53° at Valencia to 31° at Nottingham. Sharp frost again at night.

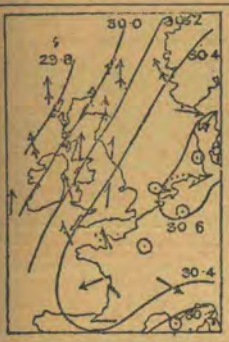
Wind light on all coasts,—from S.W. in the N.W., from W. and N.W. in the N. and E., and from N.E. and N. in the S. Strong southerly wind springing up in the W. later.

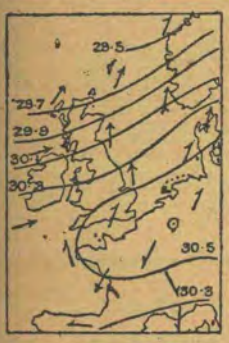
Sea rough at Brest and becoming rough in W. Ireland.

Barometer rising quickly generally, but change slight at Valencia. Large anticyclone lying over these Islands. Falling in W. later, depression appearing there and anticyclone moving eastward.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND. | CLOUD, RAIN, SEA, AND TEMPERATURE.





Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 24.

Weather fair, but foggy over the S.E. of England, the N.E. of France, N. Germany, and Denmark; cloudy or dull generally with rain in the W. and N.W. Rain in the W. and N. during day, but fine in S.E.

Temperature risen except at Dover and Yarmouth,—rapidly W. and N.; readings ranging from 51° at Valencia to 28° at Nottingham. Falling a little at Valencia later, rising elsewhere, maxima varying between 53° and 37°.

Wind southerly over the N.W. of France and the whole of these Islands, and south-easterly in Norway: Light at our south-eastern stations, but blowing a gale in the W. and N. and at Skudesness. Falling lighter during day, little other change.

Sea rough or very rough in the W. and N.

Barometer rising over the countries to the eastward of the North Sea, the Netherlands, and S.E. of England, falling elsewhere; large depression shown off the Hebrides. Rising in W. later and depression moving away.

Sunday, December 25.

Weather fine in the S.E. and over France, dull elsewhere with rain in many places; dull and misty all day with slight rain.

Temperature risen except at a few Channel stations; readings ranging from 52° at Valencia to 34° at Cambridge. Rather cold all day in S.E., but maxima between 45° and 51° elsewhere.

Wind easterly over France, but westerly to south-westerly on all our coasts and over the countries to the eastward of the North Sea; blowing lightly to freshly at our stations and reaching a gale in S. Norway. Strong to light westerly winds all day.

Sea rough W. and N.

Barometer still falling in Scotland and Scandinavia, rising elsewhere. Large depression lying off the W. coasts of Norway, with large area of high pressure over the N. of France, the Channel, and S. of England. Barometer rising all day.

Monday, December 26.

Weather fine over France and the E. coast of Scotland, cloudy or dull elsewhere with rain in the W. of Norway and N. Germany. Cloudy and damp all day except in the W., where weather continued fair.

Temperature risen except extreme W.; readings ranging at 8h. A.M. from 50° at Valencia and Leith to 41° at Cambridge, while maxima in afternoon varied between 52° and 44°.

Wind moderate to strong from W. to S.W. on our coasts and blowing a gale from S.W. in Norway. Backing in Ireland later, and westerly gale springing up at Stornoway.

Sea rough and rising in the North.

Barometer rising everywhere; large area of high pressure (readings at the centre exceeding 30·7 ins.) lying over France and the Channel with large depression in extreme N. of Norway. Pressure giving way during day.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⟫⟶ = a heavy gale; ⟩⟶ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	51	31	43·9	35·7	39·8	−0·8	6	0·54	−0·20	*	*
	Stornoway	51	28	44·0	34·6	39·3	−1·8	5	1·27	−0·13	5	12
	Wick	53	25	43·7	32·0	37·9	−2·1	2	0·09	−0·61	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)										*	*
	Jersey (Noirmont)	48	32	45·0	37·4	41·2	−2·9	3	0·37	−0·40	19	34

* The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	54	27	42·4	33·3	37·9	− 1·9	1	0·05	−0·43	*	*
	Aberdeen	51	24	42·0	29·6	35·8	− 3·4	2	0·11	−0·54	11	24
	Leith	52	26	44·7	33·7	39·2	− 0·2	2	0·04	−0·36	*	*
2. ENGLAND, N.E.	Alnwick Castle	50	25	41·6	33·4	37·5	− 1·5	3	0·16	?	*	*
	Shields	52	28	43·3	33·4	38·4	− 0·6	3	0·29	−0·11	*	*
	Durham	50	25	41·9	31·3	36·6	− 2·4	3	0·26	−0·45	11	23
	York	50	24	41·1	29·6	35·4	− 3·8	3	0·44	−0·16	6	12
	Spurn Head	47	31	41·6	33·4	37·5	− 1·8	2	0·72	?	*	*
	Brigg‡ ⁂										4	8
3. ENGLAND, E.	Hillington ⁂	46	20	39·7	29·5	34·6	− 4·9	5	0·15	−0·46	7	14
	Yarmouth	44	28	40·4	31·6	36·0	− 3·8	3	0·30	−0·33	*	*
	Geldeston	46	23	40·6	31·7	36·2	− 3·6	2	0·26	−0·35	6	11
	Cambridge	45	22	41·3	29·6	35·5	− 3·8	2	0·23	−0·19	13	24
	Rothamsted	47	21	40·5	39·3	35·4	− 4·6	5	0·48	−0·12	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	49	22	41·4	31·0	36·2	− 3·5	2	0·40	−0·11	*	*
	Nottingham	48	22	41·4	29·0	35·2	− 4·8	3	0·29	−0·33	*	*
	Loughborough	47	24	40·9	30·5	35·7	− 4·4	2	0·25	−0·31	*	*
	Leicester											
	Birmingham (Oscott)	47	21	40·4	29·7	35·1	− 5·4	1	0·46	−0·07	*	*
	Cheadle ⁂	47	23	40·1	30·2	35·2	− 5·7	2	0·36	?	*	*
	Churchstoke ⁂	49	22	42·5	32·0	37·3	− 4·3	3	0·30	?	10	20
	Hereford ⁂	50	22	42·8	30·8	36·8	− 4·5	2	0·21	−0·49	*	*
	Cirencester	46	22	40·6	29·6	35·1	− 5·9	1	0·03	−0·72	16	30
	Oxford	46	21	41·9	31·4	36·7	− 4·1	2	0·06	−0·47	13	25
5. ENGLAND, S.	London†	46	24	41·9	31·0	36·5	− 4·3	2	0·06	−0·47	8	15
	Marlborough ⁂	45	22	40·3	29·8	35·1	− 5·9	2	0·12	−0·61	12	22
	Strathfield Turgiss ⁂	46	20	40·6	27·6	34·1	− 7·1	2	0·14	−0·42	*	*
	Dover	46	33	43·6	36·0	39·8	− 0·7	0	—	−0·80	*	*
	Hastings (St. Leonard's)	47	32	44·0	36·0	40·0	0·0	2	0·06	−0·63	*	*
	Southampton	47	26	43·8	33·4	38·6	− 3·3	2	0·05	?	12	22
	Hurst Castle	47	27	45·1	35·0	40·1	− 2·4	3	0·05	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	53	30	43·7	37·3	40·5	− 0·5	7	2·54	?	*	*
	Glasgow	51	26	42·7	34·8	38·8	− 1·0	5	0·49	−0·61	1	2
	Ardrossan	51	30	44·4	35·0	39·7	− 1·3	4	1·00	+0·05	*	*
	Silloth (Cumberland)	49	20	40·7	32·0	36·4	− 3·6	2	0·41	−0·32	5	10
	Douglas (Isle of Man)	52	26	45·2	36·3	40·8	− 1·2	3	1·01	−0·09	8	16
7. ENGLAND, N.W.	Barrow-in-Furness	48	27	42·9	33·4	38·2	− 2·8	4	0·73	?	*	*
	Stonyhurst	47	24	41·0	31·6	36·3	− 4·7	4	1·17	+0·07	0	0
	Blackpool ⁂	47	23	40·6	31·0	35·8	− 5·3	4	1·03	+0·28	*	*
	Manchester	49	21	40·4	31·1	35·8	− 4·8	4	1·10	+0·31	*	*
	Liverpool Obsy (Bidston)	50	28	43·3	34·7	39·0	− 2·5	4	0·79	+1·34	*	*
	Llandudno ⁂	53	30	45·6	36·7	41·2	− 1·3	2	0·20	−0·61	1	2
	Holyhead	50	34	45·7	38·7	42·2	− 0·8	3	0·23	−0·71	*	*
8. ENGLAND, S.W.	Pembroke	51	30	47·0	39·1	43·1	− 0·4	3	0·07	−0·88	14	26
	Arlington (N. Devon)	49	25	?45·0	32·7	?38·9	?− 4·1	5	0·33	?	*	*
	Falmouth	52	34	48·2	41·0	44·6	− 1·1	3	0·22	−0·76	4	7
	Plymouth	50	30	46·8	35·0	40·9	− 4·1	4	0·13	−0·67	13	23
	Prawle Point	50	31	46·3	36·7	41·5	− 3·6	2	0·11	?	*	*
9. IRELAND, N.	Londonderry	52	28	44·7	34·1	39·4	− 2·1	5	0·38	−0·51	*	*
	Mullaghmore	51	29	47·3	38·1	42·7	+ 1·2	5	0·46	?	*	*
	Markree Castle	53	20	45·6	33·2	39·4	− 2·7	4	0·38	−0·32	11	22
	Brookeborough	51	19	43·7	32·8	38·3	− 3·3	3	0·71	?	*	*
	Armagh	51	28	42·8	35·8	39·3	− 3·2	4	0·24	−0·43	12	24
	Donaghadee	52	28	44·9	34·6	39·8	− 2·0	4	0·55	?	*	*
10. IRELAND, S.	Dublin	52	26	44·4	36·4	40·4	− 2·1	2	0·09	−0·46	9	18
	Parsonstown	51	21	45·0	32·3	38·7	− 3·3	4	0·58	−0·17	10	20
	Waterford										*	*
	Roche's Point	52	31	48·4	38·0	43·2	− 0·1	4	0·66	−0·66	*	*
	Valencia	53	31	50·4	39·0	44·7	+ 1·4	4	0·83	−0·65	14	26
	Foynes										*	*

Stations marked ⁂ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866-75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary

WEEKLY WEATHER REPORT.

ISSUED BY THE METEOROLOGICAL OFFICE, LONDON.

PUBLISHED BY J. D. POTTER, 31 POULTRY, AND 11 KING STREET, TOWER HILL, AND E. STANFORD, 55 CHARING CROSS.

WEEK ENDING MONDAY, JANUARY 2, 1882.

I.—SUMMARY OF TEMPERATURE, RAINFALL, AND DURATION OF SUNSHINE IN THE UNITED KINGDOM, FOR AGRICULTURAL AND SANITARY PURPOSES.

Explanation of the Map.—The United Kingdom has been divided into Meteorological districts, ten of which are included in the following Summary. They are separately numbered and shaded on the Map, and are similarly numbered in the letterpress, where also they are named.

The black dots show the positions of the stations furnishing the reports on which the Summary is based. The names of the Stations are given in the following list under those of the districts to which they severally belong.

1. SCOTLAND, E.—Nairn, Aberdeen, Leith.
2. ENGLAND, N.E.—Alnwick Castle, Shields, Durham, York, Spurn Head, Brigg.
3. ENGLAND, E.—Hillington, Yarmouth, Geldeston, Cambridge, Rothamsted.
4. MIDLAND COUNTIES.—Bawtry (Hesley Hall), Nottingham, Loughborough, Leicester, Birmingham (Oscott), Cheadle, Churchstoke, Hereford, Cirencester, Oxford.
5. ENGLAND, S.—London, Marlborough, Strathfield Turgiss, Dover, Hastings, (St. Leonard's), Southampton, Hurst Castle.
6. SCOTLAND, W.—Laudale (Loch Sunart), Glasgow, Ardrossan, Silloth (Cumberland), Douglas (Isle of Man).
7. ENGLAND, N.W.—Barrow-in-Furness, Stonyhurst, Blackpool, Manchester, Liverpool Observatory (Bidston), Llandudno, Holyhead.
8. ENGLAND, S.W.—Pembroke, Arlington (N.Devon), Falmouth, Plymouth, Prawle Point.
9. IRELAND, N.—Londonderry, Mullaghmore, Markree Castle, Brookeborough, Armagh, Donaghadee.
10. IRELAND, S.—Dublin, Parsonstown, Waterford, Roche's Point, Valencia, Foynes.

Explanation of Summary.—The words "Mean for the Week," under *Temperature*, signify the mean Temperature in the corresponding week derived from the 13 years observations (1857-69), as determined by Mr. Buchan; the corresponding words under *Rainfall* signify the mean Rainfall obtained from the 10 years observations 1866-75. A "Rainy Day" is one on which at least a hundredth of an inch has fallen.

	Districts.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	Of Mean for each day.	Above or below the Mean* for the Week.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.*	Rainfall for the Week.	More or less than the Mean* for the Week.	Bright Sunshine. Number of Hours recorded.	Percentage of possible Duration.
Principal Wheat-producing Districts.	1. SCOTLAND, E.	53	30	48	38	43	4 above.	4	5	0 (average).	18	38
	2. ENGLAND, N.E.	53	30	47	37	42	3 above.	3	3	3 less.	15	29
	3. ENGLAND, E.	52	32	45	36	41	2 above.	4	3	2 less.	5	10
	4. MID. COUNTIES	54	29	47	36	42	2 above.	4	5	2 less.	8	15
	5. ENGLAND, S.	51	31	47	39	43	2 above.	2	6	1 less.	3	6
Principal Grazing, &c. Districts.	6. SCOTLAND, W.	52	32	48	41	44	4 above.	5	17	0 (average).	10	21
	7. ENGLAND, N.W.	54	30	49	38	43	2 above.	5	10	2 more.	4	8
	8. ENGLAND, S.W.	53	35	50	43	47	3 above.	4	12	2 more.	13	23
	9. IRELAND, N.	53	28	49	38	43	2 above.	5	9	2 more.	14	28
	10. IRELAND, S.	55	33	51	41	46	4 above.	5	13	2 more.	17	32

General Remarks.

Weather has been cloudy or dull everywhere; but while it was comparatively dry at our eastern and south-eastern stations, in all the south-western and western parts of the Kingdom it was unsettled and rainy.

Temperature has been above the mean in all districts, the excess in "Ireland, S." and over Scotland being as much as 4°. Readings, although lower over central and eastern England than elsewhere, were rather uniform. Very little frost occurred in any part of the country, the lowest reading (28°) being registered at Markree on December 28th. The maxima were lowest (51°) over "England, S." and highest (55°) in "Ireland, S."

Rainfall has been rather less than the mean in the "Wheat-producing Districts," and a little more than the mean in the Grazing Districts.

Bright sunshine percentages show a slight increase in most places, but are still low, varying from 6 in "England, S." and 8 in "England, N.W." to 38 in "Scotland, E."

Depressions observed.—During the whole of this period the barometer has been highest over the southern portion of our area and lowest to the northward and north-westward. Several depressions, none of which, however, were very serious, have passed in a northerly or north-easterly direction over, or outside, our western and northern coasts. Southerly to westerly winds have been general, and, though moderate to fresh on most days, they rose to a slight gale in the W. on the 29th, and to a fresh to strong gale in several parts of the Kingdom on January 2nd.

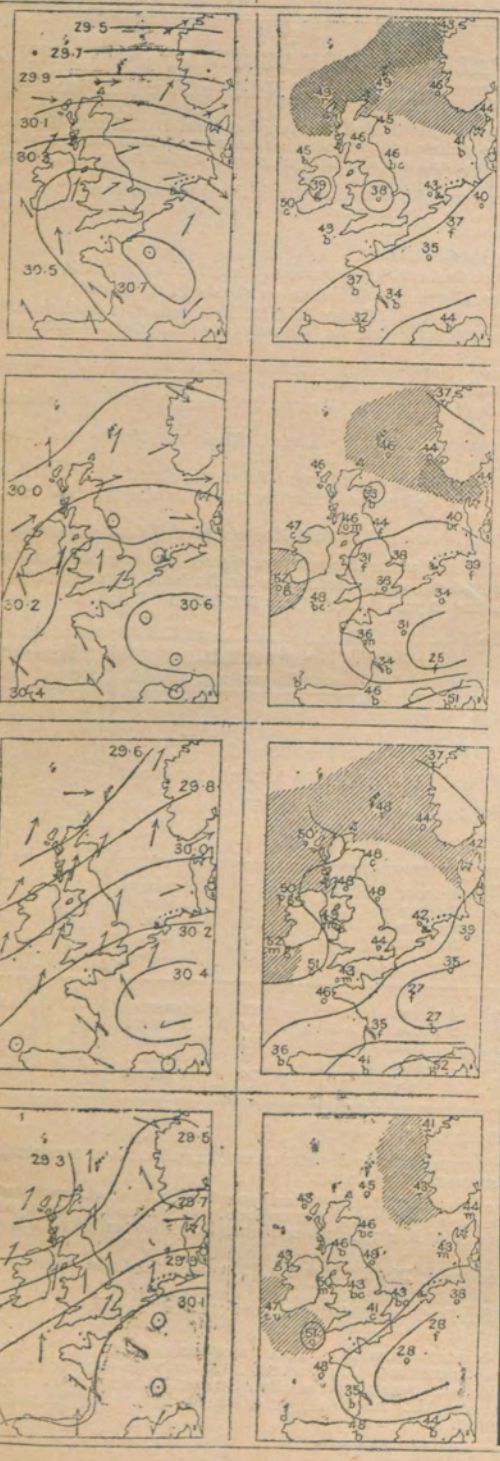
R 60. 460.—1/82. Wt. 14790. E. & S.

II.—SUMMARY OF WEATHER IN WESTERN EUROPE during the Week ending January 2, 1882.

Synoptic Weather Charts.—8 a.m.

BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.



Weather during the 24 hours succeeding the date of the Charts.

Tuesday, December 27, 1881.

Weather fine at most of the more eastern stations, as well as on our S.W. coasts and in the W. of France; cloudy elsewhere, with fog in some places and rain in the extreme N. Fine except in extreme N. all day.

Temperature fallen somewhat; readings uniform, ranging from 50° at Valencia and Wick to 38° at Nottingham. Maxima between 44° and 53°, but night cold in Scotland.

Wind easterly over France, drawing from S. into W. on our coasts, westerly over the whole of Scandinavia. Light or moderate in force in the S., but rising to a gale in N. Scotland and in Norway. Falling lighter later.

Sea rough round our northern and on the Norwegian coasts.

Barometer rising, except in the W. of France and on our S.W. coasts. Anticyclone (readings 30·7 inches) lying over France, with large depression in N. Norway. Barometer falling in S.W. later; little other change.

Wednesday, December 28.

Weather cloudy, misty, and foggy generally, but fine in E. Scotland and W. France. Very little change later, fog and mist continuing but scarcely any rain falling.

Temperature fallen a few degrees generally, and quickly in the N.E.; readings ranging from 52° at Valencia to 31° at York. Maxima (low over the E. of England) varying from 55° at Valencia to 38° at York.

Wind between S.E. and S.W. and light or moderate in force over these Islands and France, but strong from W. or N.W. over Scandinavia. Increasing to a strong breeze in Ireland later.

Sea rough at Valencia and off Norway.

Barometer rising fast in Sweden and N. Norway, falling elsewhere. Anticyclone, now 30·6 ins., still shown over France, but depression in extreme N. passing away. Steady continuous fall in progress during day.

Thursday, December 29.

Weather cloudy and foggy in nearly all places with rain in Ireland and the Shetlands. Clearing in the S.E. later in day, but remaining dull generally, with rather heavy rain in the N.W.

Temperature risen at most stations—quickly in Scotland, readings ranging from 52° at Valencia to 38° on our E. coast. Maxima varying between 44° and 54°.

Wind southerly and south-westerly generally, light in force in the S.E., fresh or strong in the W. and N.W. Moderate to fresh south-westerly breezes holding all day.

Sea rough in the W. and N.

Barometer falling briskly everywhere. Anticyclone, now 30·4 ins., still lying over France with large area of low pressure in the extreme N.W. Falling slowly all day.

Friday, December 30.

Weather fine in the E. of England and in parts of France, cloudy in most other places, with rain at Mullaghmore and Pembroke. Fair during latter part of day.

Temperature fallen somewhat; readings ranging from 51° at Scilly to 40° at Cambridge. Maxima between 43° and 52°, but night rather cold in N.

Wind south-westerly and southerly on all our coasts, varying from a light breeze in the S.E. to a strong breeze in the W. Little change later, but wind lighter.

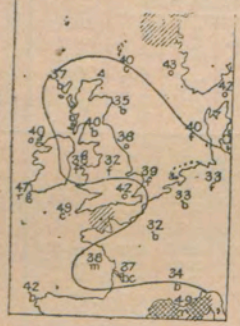
Sea rough in the S.W. and off the W. of Norway.

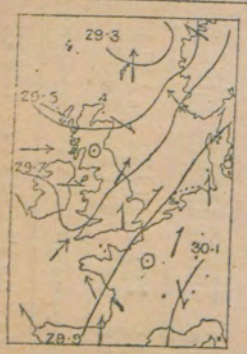
Barometer falling everywhere. Anticyclone, now 30·2 ins., shown in S. France, with depressions off the N.W. of Scotland and over Sweden, Scotch depression subsequently moving away, and mercury rising in W. and N.W.

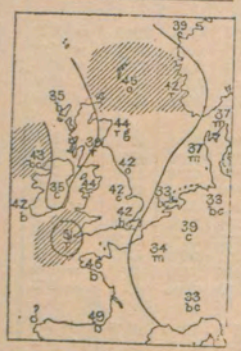
Synoptic Weather Charts.—8 a.m.

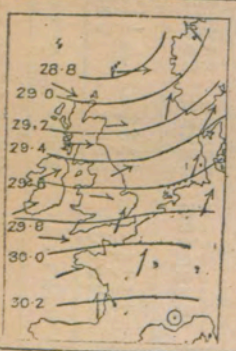
BAROMETER AND WIND.

CLOUD, RAIN, SEA, AND TEMPERATURE.









Weather during the 24 hours succeeding the date of the Charts.

Saturday, December 31.

Weather fine over Scotland, a large part of France, and the S.E. of England; cloudy or dull in most other places, with rain at Valencia and Prawle Point. Rain subsequently falling except over S., S.E., and central England.

Temperature risen over France, but fallen generally,—several degrees over Ireland, Scotland, and the N. of England. Rising during day, and maxima between 43° and 53°.

Wind south-easterly over France and our S. and S.W. coasts, but drawing into S. and S.W. over the northern parts of the Kingdom and in Scandinavia. Moderate in force generally.

Sea rough at Prawle Point, Toulon, and Christiansund.

Barometer falling over all the southern and rising over the northern part of our area. Anticyclone over E. France, with large depression in N. Norway, and smaller one approaching our S.W. coasts. Falling during day,—briskly in S.W.

Sunday, January 1, 1882.

Weather fine in Ireland, the S.E. of England, and S.W. of France, dull in most other districts, with rain in several places. Heavy rain falling in the S.E. later.

Temperature fallen in Ireland, risen elsewhere; readings ranging from 51° at Scilly to 35° at Stornoway. Maxima varying between 41° and 53°.

Wind westerly in the extreme W., southerly on most other coasts; light to fresh in force. Veering to W. in most parts of the country later in day.

Sea rough at Scilly, Mullaghmore, and the Shetlands.

Barometer rising slightly in the W. and S.W., and quickly in Scandinavia, falling elsewhere. Pressure highest in E. France, with a depression to the northward of Scotland, and a second over the Bristol Channel. Rising in W. and falling in E. later.

Monday, January 2.

Weather fine on our north-eastern and south-eastern coasts, dull generally with some rain and mist. Dull all day with rain in evening.

Temperature risen except in the N.E.; readings ranging from 51° at Valencia to 39° at Wick. High all day, and maxima, except in Scotland, varying between 49° and 53°.

Wind westerly all over the country, blowing freshly or strongly generally. Backing somewhat later and rising to a gale in the W. and S.

Sea rough W., S., and N.

Barometer rising in France, falling elsewhere; as high as 30·2 ins. over France, and as low as 28·7 ins. to the northward of Scotland. Fresh fall and depression appearing in W. later.

Explanation of Charts.—The two Charts for each day show the general condition of the weather over Western Europe at 8 a.m. In the left-hand Chart the height of the barometer is expressed by "isobars," the value of each line being given in figures. The prevalent winds are shown by arrows, which are drawn flying *with the wind*, the force being indicated thus: ⇛ = a heavy gale; ⟹ = a gale; ⟶ = a fresh to strong breeze; ⟶ = a light to moderate breeze; and ⊙ = a calm. In the right-hand Chart the weather is indicated as follows:—b = blue sky; c = detached clouds; o = overcast; m = misty (hazy); f = foggy; q = squally; r = rain; h = hail; s = snow; l = lightning; and t = thunder. The general distribution of temperature is shown by "isotherms," and the readings at certain places are given in figures. Diagonal lines = rough sea, the shading being proportional to the disturbance.

VALUES for each STATION in SCOTLAND, N. and the CHANNEL ISLANDS.

DISTRICTS.	NAMES OF STATIONS.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded	Percentage of possible Duration.
		°	°	°	°	°	°		Inches.	Inches.		
SCOTLAND, N.	Sumburgh Head	49	39	47·1	42·4	44·8	+4·8	7	1·11	+0·40	*	*
	Stornoway	50	33	46·0	39·0	42·5	+2·5	7	2·42	+1·09	7	16
	Wick	50	36	45·7	39·9	42·8	+3·0	3	0·19	−0·46	*	*
CHANNEL ISLANDS	Scilly (St. Mary's)	55	44	52·6	46·7	49·7	+3·7	4	0·67	−0·38	*	*
	Jersey (Noirmont)	50	36	45·7	37·6	41·7	−2·8	2	0·72	−0·07	17	30

The above observations made in "Scotland, N." and the "Channel Islands" are not included in the Summary on page 1.

The data from which the summary on page 1 has been calculated, are as follow:

Districts.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from Mean for the Week.	Rainfall. Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Percentage of possible duration.
		°	°	°	°	°	°		Inches.	Inches.		
1. SCOTLAND, E.	Nairn	52	34	47·0	39·9	43·5	+ 4·2	5	0·68	+0·18	*	*
	Aberdeen	52	30	47·9	34·4	41·2	+ 2·4	3	0·37	−0·27	18	38
	Leith	53	30	50·3	38·7	44·5	+ 5·5	4	0·55	+0·15	*	*
2. ENGLAND, N.E.	Alnwick Castle	51	33	47·0	38·7	42·9	+ 3·9	4	0·37	?	*	*
	Shields	52	36	49·0	39·0	44·0	+ 5·0	3	0·17	−0·42	*	*
	Durham	50	34	47·1	38·1	42·6	+ 4·2	4	0·20	−0·42	15	30
	York	53	30	46·9	33·7	40·3	+ 1·4	4	0·42	−0·12		
	Spurn Head	51	32	44·6	35·4	40·0	+ 1·5	2	0·25	?	*	*
	Brigg‡ ⚓										14	27
3. ENGLAND, E.	Hillington ⚓	50	34	44·7	35·9	39·8	+ 0·8	5	0·36	−0·20	6	12
	Yarmouth	50	34	44·3	36·3	40·3	+ 1·4	2	0·23	−0·47	*	*
	Geldeston	50	34	44·9	36·1	40·5	+ 1·5	3	0·26	−0·25	4	8
	Cambridge	52	32	46·1	36·3	41·2	+ 2·8	2	0·26	−0·14	6	11
	Rothamsted	50	34	45·2	36·7	41·0	+ 1·6	6	0·61	0·00	*	*
4. MIDLAND COUNTIES	Bawtry (Hesley Hall)	54	32	46·7	33·4	40·1	+ 1·2	4	0·33	−0·17	*	*
	Nottingham	52	32	47·6	36·3	42·0	+ 3·0	5	0·34	−0·36	*	*
	Loughborough	51	30	47·4	37·6	42·5	+ 3·0	3	0·44	−0·09	*	*
	Leicester	51	34	47·0	36·6	41·8	+ 1·9	4	0·46	−0·07	9	17
	Birmingham (Oscott)	52	33	46·9	36·1	41·5	+ 1·5	3	0·37	−0·18	*	*
	Cheadle ⚓	50	32	45·4	34·1	39·8	− 0·7	6	0·59	?	*	*
	Churchstoke ⚓	53	29	48·5	35·2	41·9	+ 0·9	4	0·57	?	11	21
	Hereford ⚓	53	31	48·2	35·2	41·7	+ 0·7	4	0·24	−0·49	*	*
	Cirencester	50	35	45·6	38·1	41·9	+ 1·4	3	0·83	+0·03	4	8
	Oxford	52	36	47·9	39·6	43·8	+ 4·3	3	0·35	−0·20	7	13
5. ENGLAND, S.	London†	51	33	47·0	38·0	42·5	+ 2·4	2	0·48	−0·13	1	2
	Marlborough ⚓	49	34	45·8	37·5	41·7	+ 1·1	3	0·64	−0·16	7	15
	Strathfield Turgiss ⚓	51	31	47·0	36·7	41·9	+ 0·9	4	0·64	+0·04	*	*
	Dover	49	37	46·0	40·0	43·0	+ 2·9	2	0·34	−0·46	*	*
	Hastings (St. Leonard's)	49	37	46·6	40·6	43·6	+ 3·1	2	0·40	−0·30	*	*
	Southampton	51	36	47·7	40·5	44·1	+ 2·6	2	0·85	?	1	2
	Hurst Castle	50	40	48·4	42·1	45·3	+ 3·3	2	0·58	?	*	*
6. SCOTLAND, W.	Laudale (Loch Sunart) §	52	37	48·9	40·8	44·9	+ 4·6	7	4·07	?	*	*
	Glasgow	51	33	47·3	38·6	43·0	+ 4·0	6	1·51	+0·40	6	13
	Ardrossan	49	37	47·3	41·9	44·6	+ 4·6	5	1·22	+0·19	*	*
	Silloth (Cumberland)	49	32	46·6	40·5	43·6	+ 4·4	4	0·96	+0·17	11	22
	Douglas (Isle of Man)	51	33	49·7	41·5	45·6	+ 4·1	4	0·56	−0·72	14	27
7. ENGLAND, N.W.	Barrow-in-Furness	50	36	46·6	38·7	42·7	+ 2·3	5	0·95	?	*	*
	Stonyhurst	50	33	46·3	37·0	41·7	+ 1·5	5	1·29	+0·20	5	10
	Blackpool ⚓	51	30	46·5	34·1	40·3	− 0·6	5	0·94	+0·19	*	*
	Manchester	51	32	46·3	35·1	40·7	+ 1·2	5	1·02	+0·23	*	*
	Liverpool Obsy (Bidston)	54	31	49·1	35·1	42·1	+ 1·5	3	0·63	+0·14	*	*
	Llandudno ⚓	53	36	52·0	41·7	46·9	+ 4·9	5	1·10	+0·29	3	6
	Holyhead	51	37	49·7	41·7	45·7	+ 3·5	4	1·14	+0·17	*	*
8. ENGLAND, S.W.	Pembroke	52	38	50·3	44·0	47·2	+ 4·7	6	1·21	+0·16	14	26
	Arlington (N. Devon)	51	35	48·3	38·9	43·6	+ 1·1	3	1·79	?	*	*
	Falmouth	52	40	50·7	43·6	47·2	+ 2·2	4	1·25	+0·25	17	30
	Plymouth	53	38	51·3	43·3	47·3	+ 2·8	4	0·85	−0·20	7	13
	Prawle Point	53	37	50·7	43·9	47·3	+ 2·3	3	0·98	?	*	*
9. IRELAND, N.	Londonderry										*	*
	Mullaghmore	53	40	49·7	41·7	45·7	+ 4·7	6	1·26	?	*	*
	Markree Castle	52	28	49·3	33·8	41·6	− 0·3	5	0·69	−0·02	12	24
	Brookeborough	50	29	48·3	36·1	42·2	+ 1·2	6	1·06	?	*	*
	Armagh	51	35	49·0	38·5	43·8	+ 1·7	5	0·86	+0·16	16	31
	Donaghadee	52	34	49·1	38·0	43·6	+ 2·6	4	0·54	?	*	*
10. IRELAND, S.	Dublin	54	34	51·9	39·9	45·9	+ 3·9	4	0·66	+0·10	21	40
	Parsonstown	52	33	49·9	37·1	43·5	+ 2·4	5	0·81	+0·03	16	31
	Waterford										*	*
	Roche's Point	53	36	51·6	42·4	47·0	+ 4·0	6	1·31	−0·08	*	*
	Valencia	55	40	52·9	44·9	48·9	+ 5·9	7	2·37	+0·87	13	25
	Foynes	53	37	49·9	39·6	44·8	+ 2·8	4	1·21	?	*	*

Stations marked ⚓ are in connection with the Meteorological Society.

An asterisk is inserted in all places for which the information is not usually received.

† For London the Sunshine values are the means of observations made in the City (Bunhill Row), at Hampstead, and the Kew Observatory.

‡ The Bright Sunshine values quoted for Brigg are those obtained from a recorder placed at Worksop.

§ As the annual rainfall at Laudale is evidently much greater than at the other stations in "Scotland, W.", and as no average for the years 1866–75 can be obtained, the weekly amounts are not used in calculating the "Difference from the mean for the Week" in that district.

Meteorological Office,
116, Victoria Street, S.W.

(Signed) ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the FIRST QUARTER of the YEAR (January 1st to March 31st).

Vol. IV., No. 13a. (Issued as Part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	14·8	11·3	5·8	7·4	7·1	11·4	9·6	15·4	13·4	16·9	13·7	12·0	14·3	11·7
	1867	10·7	9·5	5·4	5·7	8·1	8·8	8·0	9·9	11·1	15·2	11·8	10·7	11·7	9·7
	1868	19·1	11·7	4·9	5·4	6·7	7·5	9·2	17·6	13·3	11·9	13·0	10·5	13·3	11·1
	1869	11·8	8·9	6·2	6·2	7·7	9·0	8·3	11·4	12·2	14·0	12·1	12·1	12·4	10·1
	1870	6·4	6·7	4·8	3·9	5·1	6·0	5·5	8·8	9·0	10·7	8·6	9·7	9·4	7·2
	1871	9·4	6·9	3·8	3·9	4·8	6·1	5·8	11·7	8·7	10·0	10·7	9·4	10·1	7·8
	1872	8·2	11·2	7·8	6·1	9·8	10·1	8·9	15·2	14·0	19·5	12·7	13·1	14·9	11·6
	1873	7·9	7·2	5·3	5·4	7·1	8·4	6·9	10·0	9·6	14·1	8·8	11·9	10·9	8·7
	1874	11·5	6·5	3·5	3·1	5·7	4·4	5·8	8·6	11·0	12·5	8·4	7·7	9·6	7·5
	1875	8·4	7·0	3·9	3·7	5·8	6·7	5·9	9·8	8·7	12·6	7·1	10·2	9·7	7·6
	Means for 10 years, 1866 to 1875	10·8	8·7	5·1	5·1	6·8	7·8	7·4	11·8	11·1	13·7	10·7	10·7	11·6	9·3
	1876	13·4	9·5	6·3	6·7	8·2	7·5	8·6	12·1	12·0	10·9	10·0	10·0	11·0	9·7
	1877	11·9	9·8	7·1	7·6	8·3	10·7	9·2	14·2	15·4	14·2	13·4	11·4	13·7	11·3
	1878	9·3	4·3	4·9	4·6	3·8	4·9	5·3	11·0	7·3	6·2	8·2	7·9	8·1	6·6
	1879	5·5	7·0	5·2	6·3	6·2	8·3	6·4	8·5	6·7	11·2	6·7	11·4	8·9	7·5
	1880	7·4	5·3	3·1	3·3	4·2	4·6	4·7	9·1	6·2	6·7	7·6	9·9	7·9	6·1
	1881	9·4	7·4	6·2	5·9	6·7	6·8	7·1	9·4	8·6	9·8	7·7	8·7	8·8	7·9
	Means for 16 years, 1866 to 1881	10·3	8·1	5·2	5·3	6·6	7·6	7·2	11·4	10·5	12·3	10·0	10·4	10·9	8·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	38·3	38·8	39·1	40·9	40·4	41·9	39·9	40·0	40·6	43·4	39·9	40·3	40·8	40·3
	1867	36·9	37·2	36·8	38·6	38·2	39·2	37·8	37·7	38·6	41·4	38·1	39·9	39·1	38·4
	1868	40·7	41·7	41·1	41·4	41·9	42·0	41·5	42·3	42·4	44·4	42·1	44·3	43·1	42·2
	1869	40·0	40·3	40·6	41·1	41·2	42·0	40·9	42·0	42·1	45·1	42·9	44·6	43·3	42·0
	1870	37·9	37·4	37·1	37·4	38·0	38·2	37·7	38·6	38·7	41·3	39·8	41·6	40·0	38·7
	1871	40·0	39·7	38·8	39·2	40·1	40·3	39·7	40·0	40·0	43·3	41·6	43·4	41·7	40·6
	1872	40·9	40·9	41·3	42·3	42·9	43·7	42·0	42·9	43·3	46·1	42·4	44·5	43·8	42·8
	1873	39·0	38·4	38·5	38·9	39·1	39·9	39·0	39·2	39·7	42·6	39·8	41·0	40·5	39·6
	1874	41·7	41·8	41·3	40·4	41·0	42·0	41·4	42·3	41·8	45·0	42·8	45·2	43·4	42·3
	1875	39·5	39·0	38·8	38·6	39·2	40·2	39·2	39·8	40·2	42·9	41·6	44·6	41·8	40·4
	Means for 10 years, 1866 to 1875	39·5	39·5	39·3	39·9	40·2	40·9	39·9	40·5	40·7	43·6	41·0	42·9	41·8	40·7
	1876	38·7	38·3	39·2	39·0	38·9	40·0	39·0	39·5	39·8	42·4	40·1	43·3	41·0	39·9
	1877	38·4	38·8	40·4	41·7	41·8	43·1	40·7	40·5	41·8	44·9	41·4	45·2	42·8	41·6
	1878	39·4	40·1	40·8	40·6	41·8	41·7	40·7	41·9	42·2	44·2	42·5	45·1	43·2	41·8
	1879	35·8	34·2	35·9	36·5	36·4	37·8	36·1	36·5	36·8	40·8	38·0	40·5	38·5	37·2
	1880	40·6	39·8	39·5	39·2	39·9	40·5	39·9	41·3	40·6	43·5	42·2	44·1	42·3	41·0
	1881	34·4	33·5	34·3	36·1	35·8	38·2	35·4	35·3	36·6	39·9	37·5	39·8	37·8	36·5
	Means for 16 years, 1866 to 1881	38·9	38·7	38·9	39·5	39·8	40·6	39·4	40·0	40·3	43·2	40·7	42·9	41·5	40·3

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding Quarters for the 16 years, 1866 to 1881.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1880	4·7	1880	7·9	1880	6·1
	Wettest	1866	9·6	1872	14·9	1866	11·7
			°		°		°
Temperature	Coldest	1881	35·4	1881	37·8	1881	36·5
	Warmest	1872	42·0	1872	43·8	1872	42·8

Q 6387. 490.—5/81. Wt. 14790. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877.)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873.)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877.)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873.)	Dublin.* Curragh Camp. Buttevant.* Cork. Valentia.†
10. IRELAND, S. (1874 to 1877.)	Kingstown. Parsonstown. Cork. Roche's Point. Valentia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valentia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1881 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,

ROBERT H. SCOTT,

Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the SECOND QUARTER of the YEAR (April 1st to June 30th).

Vol. IV., No. 26a. (Issued as Part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).	1866	ins. 6·2	ins. 4·8	ins. 5·2	ins. 6·0	ins. 6·3	ins. 6·7	ins. 5·9	ins. 5·1	ins. 6·3	ins. 6·5	ins. 6·7	ins. 8·2	ins. 6·6	ins. 6·2
	1867	10·6	8·0	6·8	6·2	6·7	5·8	7·4	10·5	8·3	10·0	10·0	9·3	9·6	8·4
	1868	10·9	6·1	3·7	3·2	3·3	4·1	5·2	7·7	4·4	5·9	6·6	6·3	6·2	5·7
	1869	6·7	5·3	7·5	5·0	7·5	6·6	6·4	4·8	7·6	8·2	7·7	7·8	7·2	6·8
	1870	9·5	4·1	4·3	2·3	2·5	2·4	4·2	7·4	5·7	4·2	6·4	4·6	5·7	4·9
	1871	4·3	6·1	7·5	7·4	7·5	7·7	6·8	8·3	7·7	8·4	7·5	7·7	7·9	7·3
	1872	11·4	10·4	7·4	6·6	8·6	8·5	8·8	11·2	12·0	10·9	9·8	7·6	10·3	9·5
	1873	7·9	5·9	4·8	4·7	5·6	4·3	5·5	5·1	4·7	5·9	6·3	5·1	5·4	5·5
	1874	10·0	4·5	3·4	3·9	3·9	5·3	5·2	5·5	5·0	4·5	6·8	4·2	5·2	5·2
	1875	8·7	5·5	4·2	4·9	6·4	6·0	6·0	6·5	7·6	9·8	7·0	6·5	7·5	6·6
	Means for 10 years, 1866 to 1875	8·6	6·1	5·5	5·0	5·8	5·7	6·1	7·2	6·9	7·4	7·5	6·7	7·1	6·6
	1876	8·4	6·1	6·2	4·9	5·5	4·9	6·0	6·4	7·0	5·5	5·6	5·0	5·9	6·0
	1877	10·1	8·8	6·7	5·6	6·8	6·2	7·4	9·5	8·4	11·2	8·5	10·9	9·7	8·4
	1878	3·7	6·3	7·7	8·2	9·2	8·5	7·3	8·8	8·2	11·7	9·0	13·8	10·3	8·6
	1879	4·5	8·5	8·7	10·2	10·1	10·3	8·7	9·9	8·4	10·4	10·1	11·7	10·1	9·3
	1880	4·9	5·0	6·6	6·2	7·1	5·7	5·9	8·0	6·9	5·4	8·9	8·3	7·5	6·6
	1881	7·2	5·6	4·4	4·3	4·4	4·3	5·0	9·5	8·1	5·7	8·5	8·2	8·0	6·4
	Means for 16 years, 1866 to 1881	7·8	6·3	6·0	5·6	6·3	6·1	6·3	7·8	7·3	7·7	7·9	7·8	7·7	7·0
TEMPERATURE (in degrees Fahrenheit).	1866	48°·2	48°·1	48°·0	52°·2	51°·7	52°·9	50°·2	50°·9	50°·6	53°·0	51°·9	51°·4	51°·6	50°·8
	1867	47·2	49·9	48·5	52·7	52·2	52·8	50·6	51·1	51·6	53·6	53·1	52·9	52·5	51·4
	1868	49·7	52·3	52·1	55·1	55·7	54·8	53·3	52·3	53·5	55·0	52·8	54·6	53·6	53·4
	1869	47·7	49·4	49·2	50·9	51·6	51·7	50·1	50·1	50·3	53·5	51·3	52·6	51·6	50·8
	1870	49·5	52·5	51·4	52·8	54·4	53·5	52·4	51·9	52·8	54·3	53·2	53·5	53·1	52·7
	1871	47·2	48·4	47·9	49·5	51·7	51·2	49·3	50·8	50·7	53·7	52·4	53·9	52·3	50·7
	1872	48·2	49·7	49·7	52·0	51·3	51·9	50·6	50·3	51·0	51·9	50·5	51·6	51·1	50·7
	1873	47·9	49·8	49·1	49·8	51·6	51·7	50·0	51·7	51·3	52·5	51·9	53·2	52·1	51·0
	1874	48·4	49·6	49·9	51·3	52·4	52·7	50·7	51·1	51·4	54·0	51·5	54·3	52·5	51·5
	1875	49·3	51·4	51·2	52·4	52·8	52·9	51·7	51·7	52·0	53·1	51·9	53·3	52·4	52·0
	Means for 10 years, 1866 to 1875	48·3	50·1	49·7	51·9	52·5	52·6	50·9	51·2	51·5	53·5	52·1	53·1	52·3	51·5
	1876	48·2	49·7	49·8	51·1	51·3	51·3	50·2	50·3	50·5	52·1	49·8	52·2	51·0	50·6
	1877	46·6	47·5	48·4	50·8	51·1	51·8	49·4	49·1	49·5	52·3	49·3	52·2	50·5	49·9
	1878	48·8	50·6	51·7	53·8	54·3	54·8	52·3	52·5	53·5	53·5	52·6	53·7	53·2	52·7
	1879	45·0	46·8	47·5	48·8	49·0	49·8	47·8	48·4	48·6	50·0	48·4	50·0	49·1	48·4
	1880	47·6	49·9	49·5	51·1	50·9	52·0	50·2	50·5	50·5	52·3	50·4	52·1	51·2	50·6
	1881	46·8	50·1	50·6	52·6	52·9	53·5	51·1	50·8	51·8	52·5	51·8	52·8	51·9	51·5
	Means for 16 years, 1866 to 1881	47·9	49·7	49·7	51·7	52·2	52·4	50·6	50·8	51·2	53·0	51·5	52·8	51·9	51·2

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding Quarters for the 16 years, 1866 to 1881.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
Rainfall	Driest	1870	inches. 4·2	1874	inches. 5·2	1870	inches. 4·9
	Wettest	1872	8·8	1872 and 1878	10·3	1872	9·5
Temperature	Coldest	1879	47°·8	1879	49°·1	1879	48°·4
	Warmest	1868	53°·3	1868	53°·6	1868	53°·4

Q 8784. 460.—11/81. Wt. 14790. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873)	Belfast. Milltown (Banbridge). Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1881 the means are obtained from the observations published in the Weekly Weather Report.

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* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the THIRD QUARTER of the YEAR (July 1st to September 30th).

Vol. IV., No. 39a. (Issued as part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	11·8	10·6	9·3	7·9	11·7	9·7	10·2	15·1	16·1	15·2	12·0	8·9	13·4	11·7
	1867	10·0	10·1	7·1	7·1	7·4	8·6	8·4	12·9	10·4	8·7	11·8	8·8	10·5	9·4
	1868	9·7	10·4	6·0	4·2	7·1	7·2	7·4	9·1	6·7	9·5	8·1	11·0	8·9	8·1
	1869	12·8	7·0	5·8	5·6	6·4	6·0	7·3	10·4	11·5	9·9	9·4	8·5	9·9	8·5
	1870	8·6	5·8	3·5	5·8	4·5	4·8	5·5	6·8	5·0	7·0	7·6	5·7	6·4	5·9
	1871	13·0	8·7	9·7	7·5	10·8	10·3	10·0	9·8	11·8	14·2	11·1	10·5	11·5	10·7
	1872	12·1	12·5	10·4	9·8	9·4	6·6	10·1	16·1	15·8	13·1	14·7	11·2	14·2	12·0
	1873	13·7	11·8	7·2	6·4	6·8	7·3	8·9	15·7	11·8	14·0	14·2	11·8	13·5	11·0
	1874	15·5	11·6	5·8	5·1	7·1	6·3	8·6	13·4	12·6	13·8	11·8	10·1	12·3	10·3
	1875	11·2	8·9	9·1	8·6	11·5	9·4	9·8	11·2	12·7	15·3	9·2	10·6	11·8	10·7
	Means for 10 years, 1866 to 1875	11·8	9·7	7·4	6·8	8·3	7·6	8·6	12·1	11·4	12·1	11·0	9·7	11·3	9·8
	1876	8·9	7·4	8·0	8·1	9·0	7·9	8·2	10·3	11·2	13·8	10·0	9·6	11·0	9·5
	1877	10·8	11·3	10·1	8·1	10·4	7·6	9·7	12·6	15·4	14·5	12·0	10·4	13·0	11·2
	1878	8·0	8·2	8·5	6·9	8·9	7·6	8·0	10·2	11·0	9·5	8·2	10·8	9·9	8·9
	1879	9·8	10·0	8·8	12·2	11·3	11·2	10·6	15·9	13·9	13·3	15·6	12·5	14·2	12·2
	1880	7·6	7·7	10·6	9·9	11·2	9·4	9·4	9·6	10·5	8·0	9·8	10·7	9·7	9·5
	1881	6·5	9·2	10·2	8·6	8·2	8·1	8·5	10·6	10·9	9·3	8·7	10·3	10·0	9·1
	Means for 16 years, 1866 to 1881	10·6	9·4	8·1	7·6	8·9	8·0	8·8	11·9	11·7	11·8	10·9	10·1	11·3	9·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	53·2	55·4	55·4	57·6	56·8	58·1	56·1	56·2	56·8	58·4	56·0	57·2	56·9	56·5
	1867	53·7	56·0	55·9	58·8	58·5	59·2	57·0	57·2	58·2	60·0	58·5	59·4	58·7	57·8
	1868	55·0	58·5	58·8	62·5	62·4	62·4	59·9	59·5	61·2	63·6	59·1	60·8	60·8	60·3
	1869	54·5	57·4	57·6	60·2	60·5	60·3	58·4	58·2	59·1	61·4	59·5	59·8	59·6	59·0
	1870	55·6	58·1	57·2	59·6	60·5	60·3	58·6	58·5	59·5	61·7	59·6	60·3	59·9	59·2
	1871	55·1	57·4	57·5	59·9	59·5	60·1	58·3	57·3	58·3	60·6	57·2	58·0	58·3	58·3
	1872	54·0	55·9	57·1	59·7	60·1	60·3	57·9	57·7	59·1	60·7	57·9	59·3	58·9	58·3
	1873	54·1	56·4	57·3	59·1	58·7	59·4	57·5	57·4	57·8	59·5	56·6	57·9	57·8	57·7
	1874	54·4	56·7	57·9	60·2	60·3	60·2	58·3	57·8	58·8	60·6	56·9	59·0	58·6	58·4
	1875	54·8	57·0	57·8	59·7	59·6	60·2	58·2	58·4	58·7	60·6	57·5	60·0	59·0	58·6
	Means for 10 years, 1866 to 1875	54·4	56·9	57·3	59·7	59·7	60·1	58·0	57·8	58·8	60·7	57·9	59·2	58·9	58·4
	1876	54·3	56·3	57·7	60·4	60·7	61·1	58·4	57·6	58·8	61·0	56·6	59·4	58·7	58·5
	1877	52·7	55·0	55·5	57·9	57·7	58·2	56·2	55·3	56·0	58·3	55·1	57·3	56·4	56·3
	1878	55·2	58·5	59·1	60·4	60·2	61·6	59·2	59·2	59·5	61·3	58·8	60·7	59·9	59·5
	1879	52·4	54·2	56·2	58·1	57·8	58·7	56·2	55·2	56·2	57·5	54·8	57·5	56·2	56·2
	1880	55·9	57·8	59·5	61·1	60·1	62·1	59·4	58·6	59·8	61·3	58·8	60·1	59·7	59·6
	1881	52·1	54·8	56·8	58·6	57·7	59·4	56·6	54·8	56·4	57·5	55·8	56·4	56·2	56·4
	Means for 16 years, 1866 to 1881	54·2	56·6	57·4	59·6	59·5	60·1	57·9	57·4	58·4	60·2	57·4	59·0	58·5	58·2

TABLE showing, the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 16 years, 1866 to 1881.

—		WHEAT DISTRICTS.	GRAZING, &c. DISTRICTS.	GENERALLY.
		inches.	inches.	inches.
Rainfall	Driest	1870 - - 5·5	1870 - - 6·4	1870 - - 5·9
	Wettest	1879 - - 10·6	1872 and 1879 - 14·2	1879 - - 12·2
		°	°	°
Temperature	Coldest	1866 - - 56°·1	1879 and 1881 - 56°·2	1879 - - 56°·2
	Warmest	1868 - - 59°·9	1868 - - 60°·8	1868 - - 60°·3

Q 8784*a*. 460.—11/81. Wt. 14790. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E.	1866 to 1875: Fakenham. Beccles. Witham. Bury St. Edmunds. 1876 & 1877: Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin.

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N.	1866 to 1873: Belfast. Milltown (Banbridge). Armagh.† Athlone.* 1874 to 1877: Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S.	1866 to 1873: Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.† 1874 to 1877: Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1881 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the FOURTH QUARTER of the YEAR (October 1st to December 31st).

Vol. IV., No. 52a. (Issued as part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						BRITISH ISLANDS GENERALLY.
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	20·6	9·0	6·0	5·9	6·7	6·3	9·1	14·4	15·3	12·4	11·9	9·2	12·6	10·7
	1867	16·8	5·7	4·8	5·7	5·5	5·8	7·4	10·4	10·3	12·1	9·6	7·5	10·0	8·6
	1868	19·0	10·3	9·5	7·9	9·7	11·4	11·3	15·1	18·5	18·3	14·0	14·3	16·0	13·5
	1869	19·8	9·8	7·9	9·1	7·7	8·5	10·5	14·0	13·6	14·3	13·1	9·5	12·9	11·6
	1870	16·0	9·3	10·5	8·4	8·6	9·5	10·4	10·6	16·0	15·9	14·6	12·2	13·9	12·0
	1871	15·1	7·3	5·4	4·3	4·2	4·6	6·8	10·7	10·7	12·4	7·6	9·4	10·2	8·3
	1872	18·0	15·0	11·6	10·6	12·0	16·5	14·0	16·3	17·4	23·1	16·8	17·6	18·6	16·1
	1873	21·2	9·6	3·5	4·6	4·6	6·5	8·3	11·7	10·6	9·4	7·9	7·7	9·5	8·8
	1874	17·8	9·2	8·0	7·0	7·4	10·6	10·0	14·4	15·0	16·0	13·0	12·7	14·2	11·9
	1875	13·7	11·1	10·1	9·6	11·4	11·2	11·2	12·5	12·7	18·5	10·1	13·1	13·4	12·2
	Means for 10 years, 1866 to 1875	17·8	9·6	7·7	7·3	7·8	9·1	9·9	13·0	14·0	15·4	11·9	11·3	13·1	11·4
	1876	13·7	13·2	10·5	7·5	11·7	13·4	11·7	16·0	14·1	19·1	14·4	17·6	16·2	13·7
	1877	23·1	11·3	6·4	6·4	7·4	10·6	10·9	18·1	17·8	17·2	14·3	14·0	16·3	13·3
	1878	11·1	8·4	10·3	9·7	8·0	8·5	9·3	11·1	9·0	13·6	11·9	8·2	10·8	10·0
	1879	8·6	4·8	3·6	3·4	2·7	2·6	4·3	6·2	5·5	4·5	5·0	4·3	5·1	4·7
	1880	12·8	8·5	9·8	9·3	11·0	13·0	10·7	12·3	13·7	16·1	9·5	12·6	12·8	11·7
	1881	12·0	7·3	7·4	8·6	8·7	9·8	9·0	15·2	11·9	14·3	12·0	15·0	13·7	11·1
	Means for 16 years, 1866 to 1881	16·2	9·3	7·8	7·4	8·0	9·3	9·7	13·1	13·3	14·9	11·6	11·5	12·9	11·1
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	43·6	44·2	45·1	46·1	45·7	46·8	45·3	46·0	46·2	50·3	45·4	46·9	47·0	46·0
	1867	43·9	42·9	42·3	43·0	42·6	43·2	43·0	43·4	42·9	45·8	44·2	44·9	44·2	43·6
	1868	42·0	42·0	43·1	44·8	44·3	45·5	43·6	43·6	44·2	48·1	44·0	45·5	45·1	44·3
	1869	40·9	41·5	41·8	42·7	42·9	43·7	42·3	42·5	43·9	46·6	44·7	45·5	44·6	43·3
	1870	40·3	40·0	40·3	41·6	41·3	41·9	40·9	40·5	41·6	44·4	41·5	43·2	42·2	41·5
	1871	42·2	42·1	42·3	41·5	41·7	41·8	41·9	42·4	43·0	45·3	43·2	44·7	43·7	42·7
	1872	42·4	42·0	43·3	44·4	44·2	45·4	43·6	43·6	44·4	47·3	42·8	44·1	44·4	44·0
	1873	43·4	42·9	44·2	43·9	43·6	44·5	43·8	44·2	44·7	46·9	44·3	46·3	45·3	44·4
	1874	41·4	39·9	40·8	41·8	41·7	43·0	41·4	40·5	42·3	46·0	42·8	45·7	43·5	42·4
	1875	42·7	42·1	43·0	42·7	43·0	43·5	42·8	42·8	43·6	45·9	43·5	46·0	44·4	43·5
	Means for 10 years, 1866 to 1875	42·3	42·0	42·6	43·3	43·1	43·9	42·9	43·0	43·7	46·7	43·6	45·3	44·5	43·6
	1876	44·0	43·4	45·2	46·2	44·8	47·2	45·1	44·6	46·1	49·0	45·7	48·1	46·7	45·8
	1877	42·9	43·3	43·6	44·4	44·1	44·8	43·9	44·5	45·3	49·2	44·4	47·4	46·2	44·9
	1878	40·5	39·7	39·8	40·8	40·7	42·3	40·6	40·9	41·5	44·5	42·1	42·8	42·4	41·4
	1879	41·8	41·0	40·3	39·7	39·8	41·2	40·6	42·2	42·0	45·3	43·0	45·0	43·5	41·8
	1880	39·1	40·4	42·4	43·6	45·6	45·3	42·7	42·2	43·6	47·7	42·9	44·9	44·3	43·4
	1881	43·2	43·0	43·2	43·5	43·2	45·2	43·6	44·3	44·5	47·7	44·3	46·8	45·5	44·4
	Means for 16 years, 1866 to 1881	42·2	41·9	42·5	43·2	43·1	44·1	42·8	43·0	43·8	46·9	43·7	45·5	44·6	43·6

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding QUARTERS for the 16 years, 1866 to 1881.

—		WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
			inches.		inches.		inches.
Rainfall	Driest	1879	4·3	1879	5·1	1879	4·7
	Wettest	1872	14·0	1872	18·6	1872	16·1
			°		°		°
Temperature	Coldest	1878 and 1879	40°·6	1870	42°·2	1878	41°·4
	Warmest	1866	45°·3	1866	47°·0	1866	46°·0

R 222. 460.—1/82. Wt. 14790. E. & S.

NOTES.

1.—Rainfall.

The mean values for the Rainfall in the various districts given in this Table for the years 1866 to 1877 were obtained from observations made at the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Loch Broom. Helmsdale. Sandwick Manse.
1. SCOTLAND, E.	Inverness. Aberdeen. Ballater. Logierait. Stirling. Hawick.
2. ENGLAND, N.E.	N. Shields. York. Grimsby. Boston.
3. ENGLAND, E. (1866 to 1875)	Fakenham. Beccles. Witham. Bury St. Edmunds.
3. ENGLAND, E. (1876 & 1877)	Yarmouth. Cambridge. Bury St. Edmunds.
4. MIDLAND COUNTIES	Leicester. Derby. Tenbury. Shiffnal. Cirencester. Banbury. Hitchin.
5. ENGLAND, S.	Bridport. Selborne. Maidstone. London (Camden Town).
6. SCOTLAND, W.	Dumfries. Ayr. Castle Toward.
7. ENGLAND, N.W. and N. WALES.	Llandudno. Manchester. Skipton.
8. ENGLAND, S.W. and S. WALES.	Barnstaple. Bodmin. Haverfordwest. Rhayader.
9. IRELAND, N.	Galway. (Doo Castle), Bunninadden, Co. Sligo. Waringstown. Strabane.
10. IRELAND, S.	Cork. Waterford. Killaloe. Portarlington. Monkstown, Co. Dublin

(The values were obtained mainly from Symons' Monthly Meteorological Magazine, supplemented by some of the values contained in the Reports of the Rainfall Committee of the British Association, 1868–1876.)

2.—Temperature.

The Temperature values for the years 1866 to 1877 have been obtained from the following stations :—

Districts.	Stations.
0. SCOTLAND, N.	Sandwick Manse. Stornoway. Dunrobin.
1. SCOTLAND, E.	Culloden. Aberdeen. Perth. Leith.
2. ENGLAND, N.E.	Bywell. N. Shields. Hull.
3. ENGLAND, E.	Royston. Holkham. Norwich. Wisbeach. Somerleyton.
4. MIDLAND COUNTIES	Derby. Nottingham. Cardington. Oxford.
5. ENGLAND, S.	Marlborough. Greenwich. Streatley. London (Camden Town). Weybridge. Strathfield Turgiss. Osborne. Bournemouth. Worthing.
6. SCOTLAND, W.	Greenock. Cockermouth. Silloth. Carlisle.
7. ENGLAND, N.W. and N. WALES.	Stonyhurst. Bradford. Leeds. Eccles. Liverpool. Llandudno.
8. ENGLAND, S.W. and S. WALES.	Gloucester. Taunton. Barnstaple. Truro. Helston.
9. IRELAND, N. (1866 to 1873)	Belfast. Milltown (Banbridge) Armagh.† Athlone.*
9. IRELAND, N. (1874 to 1877)	Moville. Milltown. Armagh. Donaghadee.
10. IRELAND, S. (1866 to 1873)	Dublin.* Curragh Camp. Buttevant.* Cork. Valencia.†
10. IRELAND, S. (1874 to 1877)	Kingstown. Parsonstown. Cork. Roche's Point. Valencia.

(The values were obtained mainly from the returns published quarterly by the Registrar General and those published by the Scottish Meteorological Society, in their Quarterly Journal, and the reports of the Army Medical Department, besides the records of the two Irish observatories, Valencia and Armagh. The returns for Cork were furnished by R. Caulfield, Esq., LL.D.)

For the years 1878 to 1881 the means are obtained from the observations published in the Weekly Weather Report.

* Did not commence till January 1867.

† Did not commence till January 1869.

By Order,
ROBERT H. SCOTT,
Secretary.

SUMMARY OF RAINFALL AND TEMPERATURE for the WHOLE YEAR.

Vol. IV., No. 52b. (Issued as Part of the Weekly Weather Report for the year 1881.)

	YEARS.	PRINCIPAL WHEAT-PRODUCING DISTRICTS.							PRINCIPAL GRAZING, &c. DISTRICTS.						
		0. SCOTLAND, N.	1. SCOTLAND, E.	2. ENGLAND, N.E.	3. ENGLAND, E.	4. MIDLAND COUNTIES.	5. ENGLAND, S.	MEAN FOR ALL THE WHEAT-PRODUCING DISTRICTS.	6. SCOTLAND, W.	7. ENGLAND, N.W.	8. ENGLAND, S.W.	9. IRELAND, N.	10. IRELAND, S.	MEAN FOR ALL THE GRAZING, &c. DISTRICTS.	BRITISH ISLANDS GENERALLY.
RAINFALL (in inches).		ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.	ins.
	1866	53·4	35·7	26·3	27·2	31·8	34·1	34·8	50·0	51·1	51·0	44·3	38·3	46·9	40·3
	1867	48·1	33·3	24·1	24·7	27·7	29·0	31·2	43·7	40·1	46·0	43·2	36·3	41·9	36·0
	1868	58·7	38·5	24·1	20·7	26·8	30·2	33·2	49·5	42·9	45·6	41·7	42·1	44·4	38·3
	1869	51·1	31·0	27·4	25·9	29·3	30·1	32·5	40·6	44·9	46·4	42·3	37·9	42·4	37·0
	1870	40·5	25·9	23·1	20·4	20·7	22·7	25·6	33·6	35·7	37·8	37·2	32·2	35·3	30·0
	1871	41·8	29·0	26·4	23·1	27·3	28·7	29·4	40·5	38·9	45·0	36·9	37·0	39·7	34·1
	1872	49·7	49·1	37·2	33·1	39·8	41·7	41·8	53·3	59·2	68·6	54·0	49·5	58·0	49·2
	1873	50·7	34·5	20·8	21·1	24·1	26·5	29·6	42·5	36·7	43·4	37·2	36·5	39·3	34·0
	1874	54·8	31·8	20·7	19·1	24·1	26·6	29·5	41·9	43·6	46·8	40·0	34·7	41·4	34·9
	1875	42·0	32·5	27·3	26·8	35·1	33·3	32·9	40·0	41·7	56·2	33·4	40·4	42·3	37·2
	Means for 10 years, 1866 to 1875	49·1	34·1	25·7	24·2	28·7	30·3	32·0	44·1	43·5	48·7	41·0	38·5	43·2	37·1
	1876	44·4	36·2	31·0	27·2	34·4	33·7	34·5	44·8	44·3	49·3	40·0	42·2	44·1	38·9
	1877	55·9	41·2	30·3	27·7	32·9	35·1	37·2	54·4	57·0	57·1	48·2	46·7	52·7	44·2
	1878	32·1	27·2	31·4	29·4	29·9	29·5	29·9	41·1	35·5	41·0	37·3	40·7	39·1	34·1
	1879	28·4	30·3	25·3	32·1	30·3	32·4	30·0	40·5	34·5	39·4	37·4	39·9	38·3	33·8
	1880	32·7	23·5	30·1	28·7	33·5	32·7	30·7	39·0	37·3	36·2	35·8	41·5	38·0	34·0
	1881	35·1	29·5	28·2	27·4	28·0	29·0	29·6	44·7	39·5	39·1	36·9	42·2	40·5	34·5
	Means for 16 years, 1866 to 1881	45·0	33·2	27·1	25·9	29·8	31·0	32·0	44·1	42·7	45·8	40·4	39·9	42·8	36·9
TEMPERATURE (in degrees Fahrenheit).		°	°	°	°	°	°	°	°	°	°	°	°	°	°
	1866	45·8	46·6	46·9	49·2	48·7	49·9	47·9	48·3	48·6	51·3	48·3	49·0	49·1	48·4
	1867	45·4	46·5	45·9	48·3	47·9	48·6	47·1	47·4	47·8	50·2	48·5	49·3	48·6	47·8
	1868	46·9	48·6	48·8	51·0	51·1	51·2	49·6	49·4	50·3	52·8	49·5	51·3	50·7	50·1
	1869	45·8	47·2	47·3	48·7	49·1	49·4	47·9	48·2	48·9	51·7	49·6	50·6	49·8	48·8
	1870	45·8	47·0	46·5	47·9	48·6	48·5	47·4	47·4	48·2	50·4	48·5	49·7	48·8	48·0
	1871	46·1	46·9	46·6	47·5	48·3	48·4	47·3	47·6	48·0	50·7	48·6	50·0	49·0	48·1
	1872	46·4	47·1	47·9	49·6	49·6	50·3	48·5	48·6	49·5	51·5	48·4	49·9	49·6	49·0
	1873	46·1	46·9	47·3	47·9	48·3	48·9	47·6	48·1	48·4	50·4	48·2	49·6	48·9	48·2
	1874	46·5	47·0	47·5	48·4	48·9	49·5	48·0	47·9	48·6	51·4	48·5	51·1	49·5	48·7
	1875	46·6	47·4	47·7	48·4	48·7	49·2	48·0	48·2	48·6	50·6	48·6	51·0	49·4	48·6
	Means for 10 years, 1866 to 1875	46·1	47·1	47·2	48·7	48·9	49·4	47·9	48·1	48·7	51·1	48·7	50·2	49·4	48·6
	1876	46·3	46·9	48·0	49·2	48·9	49·9	48·2	48·0	48·8	51·1	48·1	50·8	49·4	48·7
	1877	45·2	46·2	47·0	48·7	48·7	49·5	47·6	47·4	48·2	51·2	47·6	50·5	49·0	48·2
	1878	46·0	47·2	47·9	48·9	49·3	50·1	48·2	48·6	49·2	50·9	49·0	50·6	49·7	48·9
	1879	43·8	44·1	45·0	45·8	45·8	46·9	45·2	45·6	45·9	48·4	46·1	48·3	46·9	46·0
	1880	45·8	47·0	47·7	48·8	49·1	50·0	48·1	48·2	48·6	51·2	48·6	50·3	49·4	48·7
	1881	44·1	45·4	46·2	47·7	47·4	49·1	46·7	46·3	47·3	49·4	47·4	49·0	47·9	47·2
	Means for 16 years, 1866 to 1881	45·8	46·7	47·1	48·5	48·6	49·3	47·7	47·8	48·4	50·8	48·4	50·1	49·1	48·3

TABLE showing the DATES of the DRIEST and WETTEST, and the COLDEST and WARMEST corresponding YEARS for the 16 years, 1866 to 1881.

—	WHEAT DISTRICTS.		GRAZING, &c. DISTRICTS.		GENERALLY.	
		inches.		inches.		inches.
Rainfall { Driest	1870	25·6	1870	35·3	1870	30·0
Rainfall { Wettest	1872	41·8	1872	58·0	1872	49·2
		°		°		°
Temperature { Coldest	1879	45°·2	1879	46°·9	1879	46°·0
Temperature { Warmest	1868	49°·6	1868	50°·7	1868	50°·1

R 223. 460.—1/82. Wt. 14790. E. & S.

WEEKLY WEATHER REPORT, 1881.

REPORTS RECEIVED TOO LATE FOR INSERTION IN THEIR PROPER PLACES.

No. of Report.	For Week ending.	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
1	January 10	Stornoway	44	24	37·4	27·1	32·3	−7·4	2	0·11	−1·20	10	22
2	„ „	Barnstaple	43	24	41·7	33·1	37·4	−4·7	1	0·05	−1·06	*	*
3	„ 17	Stornoway	33	11	31·0	18·7	24·9	−14·6	5	0·32	−0·98	7	14
4	„ 24	Stornoway	38	19	34·9	24·3	29·6	−9·5	7	0·63	−0·62	14	27
„	„ 31	Sumburgh Head	43	32	41·3	35·4	38·4	−0·3	6	0·47	+0·17	*	*
„	„ „	Stornoway	44	25	41·7	33·9	37·8	−1·2	3	0·22	−0·98	8	15
5	February 7	Sumburgh Head	45	27	37·3	30·7	34·0	−4·5	6	2·18	+1·55	*	*
„	„ „	Stornoway	46	24	39·7	33·1	36·4	−2·8	6	2·39	+1·24	18	31
„	„ „	Birmingham (Oscott)	50	27	44·6	34·0	39·3	−0·9	7	0·95	+0·34	*	*
„	„ „	Waterford	52	27	48·5	36·5	42·5	+0·4	6	2·61	+1·62	*	*
„	„ „	Foynes	54	30	47·6	34·1	40·9	−1·1	5	0·55	?	*	*
6	„ 14	Sumburgh Head	39	24	37·0	29·6	33·3	−5·2	6	0·41	−0·19	*	*
„	„ „	Stornoway	42	25	39·1	31·3	35·2	−4·2	5	0·62	−0·48	2	3
7	„ 21	Stornoway	45	30	42·7	37·1	39·9	+0·4	2	0·15	−0·90	11	16
8	„ 28	Sumburgh Head	42	27	39·0	32·0	35·5	−3·0	6	0·28	−0·25	*	*
„	„ „	Stornoway	45	25	40·6	30·4	35·5	−4·0	6	0·48	−0·53	20	28
9	March 7	Sumburgh Head	37	?23	35·1	28·4	31·8	−5·7	4	0·12	−0·33	*	*
„	„ „	Stornoway	46	?15	40·1	28·4	34·3	−5·2	3	0·57	−0·43	22	29
„	„ „	Birmingham (Oscott)	58	22	44·6	34·0	39·3	−2·2	6	1·84	+1·30	*	*
10	„ 14	Sumburgh Head	47	34	43·1	36·1	39·6	+1·2	6	0·56	+0·27	*	*
„	„ „	Stornoway	53	36	48·7	39·1	43·9	+4·4	5	0·42	−0·54	23	29
11	„ 21	Sumburgh Head	48	20	40·1	34·6	37·4	−1·2	6	1·73	+1·40	*	*
„	„ „	Stornoway	51	13	43·4	35·1	39·3	−0·4	6	1·06	+0·12	6	8
„	„ „	Laudale (Loch Sunart)	53	27	46·3	37·6	42·0	+1·0	6	2·32	?	*	*
12	„ 28	Sumburgh Head	41	22	36·0	29·0	32·5	−7·0	7	2·00	+1·65	*	*
„	„ „	Stornoway	44	15	40·1	28·9	34·5	−6·0	7	0·70	−0·19	15	17
13	April 4	Sumburgh Head	41	25	36·1	28·4	32·3	−8·4	4	0·78	+0·39	*	*
„	„ „	Stornoway	45	20	41·1	30·1	35·6	−5·9	1	0·09	−0·71	27	30
„	„ „	Durham	48	22	40·9	25·2	33·1	−10·3	2	0·08	−0·32	34	38
14	„ 11	Sumburgh Head	47	28	42·7	32·6	37·7	−4·1	2	0·06	−0·34	*	*
„	„ „	Stornoway	53	28	48·9	33·1	41·0	−1·6	1	0·08	−0·67	58	61
„	„ „	Jersey (Noirmont)	?57	?33	?51·7	?41·3	?46·5	?−2·0	?0	?—	?−0·56	—	—
„	„ „	Nottingham	64	28	55·4	31·6	43·5	−2·8	1	0·05	−0·39	*	*
15	„ 18	Sumburgh Head	50	34	46·4	36·7	41·6	−1·2	2	0·08	−0·33	*	*
„	„ „	Stornoway	58	31	54·0	38·3	46·2	+2·5	2	0·14	−0·55	52	53
„	„ „	Nottingham	68	39	59·1	44·0	51·6	+3·5	5	1·00	+0·58	*	*
16	„ 25	Sumburgh Head	48	30	44·1	32·7	38·4	−8·1	6	0·51	+0·06	*	*
„	„ „	Stornoway	50	31	46·6	36·3	41·5	−3·4	5	0·75	+0·15	22	21
17	May 2	Sumburgh Head	46	32	44·7	35·5	40·1	−4·8	2	0·09	−0·31	*	*
„	„ „	Stornoway	55	?32	50·0	38·3	44·2	−1·8	2	0·11	−0·44	28	26
18	„ 9	Sumburgh Head	51	32	48·0	33·9	41·0	−4·8	4	0·37	+0·01	*	*
„	„ „	Stornoway	47	34	52·4	39·4	45·9	−1·1	4	0·67	+0·11	53	48
„	„ „	Durham	62	33	55·6	38·4	47·0	−3·5	2	0·19	−0·25	52	48
19	„ 16	Sumburgh Head	56	35	50·0	41·3	45·7	−1·2	6	1·47	+1·17	*	*
„	„ „	Stornoway	61	39	53·7	42·7	48·2	0·0	4	0·68	+0·10	33	29
20	„ 23	Sumburgh Head	55	33	48·3	38·6	43·5	−4·3	4	0·52	+0·22	*	*
„	„ „	Stornoway	67	36	52·3	41·0	46·7	−2·8	3	1·41	+0·83	32	27
21	„ 30	Sumburgh Head	62	42	57·3	44·3	50·8	+2·0	1	0·01	−0·29	*	*
22	June 6	Sumburgh Head	62	41	55·1	44·1	49·6	−0·3	6	0·77	+0·47	*	*
23	„ 13	Sumburgh Head	52	34	48·1	37·1	42·6	−4·2	5	0·30	0·00	*	*
24	„ 20	Sumburgh Head	54	40	51·7	42·4	47·1	−4·9	4	0·52	+0·22	*	*
25	„ 27	Sumburgh Head	60	42	54·9	44·9	49·9	−2·7	6	0·87	+0·58	*	*

R 1135. 460.—3/82. Wt. 14790. E. & S.

No. of Report.	For Week ending	Names of Stations.	Temperature. (In Degrees Fahrenheit.) Highest observed.	Lowest observed.	Averages for the Week. Of Highest each day.	Of Lowest each day.	For whole of each day.	Difference of Daily Average from the Mean.	Rainfall. (Amounts in tenths of an inch.) Number of Rainy Days.	Rainfall in the Week.	Difference from the Mean for the Week.	Bright Sunshine Number of Hours recorded.	Per-centage of possible duration.
			°	°	°	°	°	°		Inches.	Inches.		
26	July 4	Sumburgh Head	59	43	56·3	45·9	51·1	−2·0	5	0·68	+0·40	*	*
27	„ 11	Sumburgh Head	62	43	57·1	46·4	51·8	−1·7	6	2·18	+1·90	*	*
„	„ „	Birmingham (Oscott)	87	47	72·2	50·8	61·5	−0·8	2	0·56	−0·06	*	*
28	„ 18	Sumburgh Head	59	38	57·9	45·4	51·7	−2·0	3	0·43	+0·15	*	*
„	„ „	Birmingham (Oscott)	84	47	79·7	52·9	66·3	+3·8	0	—	−0·62	*	*
„	„ „	Cheadle	79	49	74·0	54·6	64·3	+2·1	0	—	?	*	*
29	„ 25	Sumburgh Head	60	39	56·4	45·3	50·9	−3·1	3	0·44	+0·14	*	*
30	August 1	Sumburgh Head	60	40	56·6	45·6	51·1	−2·9	5	0·24	−0·12	*	*
„	„ „	Birmingham (Oscott)	71	44	65·5	50·1	57·8	−4·2	5	0·74	+0·12	*	*
31	„ 8	Sumburgh Head	59	42	57·7	48·0	52·9	−1·1	5	1·15	+0·74	*	*
„	„ „	Birmingham (Oscott)	79	45	71·7	51·6	61·7	−0·3	1	0·64	+0·03	*	*
32	„ 15	Sumburgh Head	60	43	55·9	45·9	50·9	−3·6	2	0·09	−0·41	*	*
„	„ „	Birmingham (Oscott)	66	44	61·3	47·5	54·4	−7·5	3	0·74	+0·22	*	*
33	„ 22	Sumburgh Head	57	44	55·6	46·4	51·0	−3·1	4	0·14	−0·41	*	*
„	„ „	Scilly (St. Mary's)	65	53	61·6	55·0	58·3	−3·2	6	0·67	+0·17	*	*
„	„ „	Birmingham (Oscott)	74	45	65·4	49·5	57·5	−3·8	5	2·02	+1·37	*	*
34	„ 29	Sumburgh Head	57	42	54·4	44·1	49·3	−4·8	3	0·14	−0·41	*	*
„	„ „	Scilly (St. Mary's)	65	53	62·9	54·7	58·8	−2·2	6	1·11	+0·51	*	*
„	„ „	Birmingham (Oscott)	67	42	63·3	46·6	55·0	−5·9	4	0·75	+0·06	*	*
35	September 5	Sumburgh Head	61	41	55·9	42·9	49·4	−4·4	1	0·02	−0·53	*	*
„	„ „	Scilly (St. Mary's)	62	51	59·6	53·6	56·6	−3·7	2	1·58	+0·80	*	*
„	„ „	Londonderry	63	38	60·6	42·2	51·4	−5·1	1	0·04	−0·81	*	*
36	„ 12	Sumburgh Head	61	46	55·6	48·7	52·2	−0·8	5	0·32	−0·21	*	*
„	„ „	Scilly (St. Mary's)	64	53	61·3	54·6	58·0	−1·8	3	0·10	−0·81	*	*
„	„ „	Birmingham (Oscott)	66	?42	60·7	46·9	53·8	−5·0	1	0·02	−0·77	*	*
37	„ 19	Sumburgh Head	58	44	54·4	46·3	50·4	−1·7	3	0·13	−0·37	*	*
„	„ „	Scilly (St. Mary's)	65	53	63·1	55·3	59·2	+0·2	3	0·13	−0·93	*	*
38	„ 26	Sumburgh Head	57	40	54·4	44·9	49·7	−1·6	2	0·16	−0·36	*	*
„	„ „	Scilly (St. Mary's)	65	50	62·9	54·3	58·6	+0·6	5	1·19	+0·09	*	*
39	October 3	Sumburgh Head	58	45	56·3	47·7	52·0	+1·9	2	0·33	−0·22	*	*
„	„ „	Scilly (St. Mary's)	63	53	61·4	54·9	58·2	+1·2	1	0·01	−1·09	*	*
40	„ 10	Sumburgh Head	54	41	52·3	45·1	48·7	0·0	5	2·24	+1·66	*	*
„	„ „	Scilly (St. Mary's)	60	46	58·0	50·9	54·5	−1·5	5	0·38	−0·74	*	*
41	„ 17	Sumburgh Head	51	34	47·1	37·3	42·2	−4·8	6	0·94	+0·34	*	*
„	„ „	Scilly (St. Mary's)	59	44	57·1	50·6	53·9	−1·1	3	0·21	−0·89	*	*
„	„ „	Birmingham (Oscott)	60	31	56·2	39·2	47·7	−3·8	4	0·90	+0·11	*	*
„	„ „	Waterford	60	28	55·9	42·0	49·0	−2·7	4	0·47	−0·58	*	*
42	„ 24	Sumburgh Head	50	36	49·4	39·9	44·7	−0·5	1	0·08	−0·53	*	*
„	„ „	Scilly (St. Mary's)	60	47	56·9	49·9	53·4	−0·1	5	1·11	+0·01	*	*
„	„ „	Jersey (Noirmont)	61	41	55·7	45·7	50·7	−2·8	5	2·08	+1·23	—	—
43	„ 31	Scilly (St. Mary's)	54	40	50·4	44·4	47·4	−4·8	3	0·53	−0·52	*	*
44	November 7	Scilly (St. Mary's)	60	43	58·0	49·3	53·7	+2·7	5	0·86	−0·14	*	*
45	„ 14	Scilly (St. Mary's)	60	51	57·9	53·0	55·5	+6·0	6	0·16	−0·80	*	*
46	„ 21	Scilly (St. Mary's)	57	49	55·9	51·6	53·8	+5·8	5	1·05	+0·10	*	*
„	„ „	Laudale (Loch Sunart)	56	30	52·3	40·5	46·4	+4·4	6	4·16	?	*	*
„	„ „	Llandudno	61	45	56·4	48·1	52·3	+8·1	5	0·33	−0·47	5	8
47	„ 28	Scilly (St. Mary's)	56	43	54·0	47·1	50·6	+3·1	6	1·44	+0·54	*	*
48	December 5	Scilly (St. Mary's)	56	43	53·3	46·1	49·7	+2·7	7	1·84	+0·94	*	*
49	„ 12	Scilly (St. Mary's)	55	39	48·6	42·9	45·8	−1·2	5	0·99	+0·09	*	*
50	„ 19	Scilly (St. Mary's)	51	38	49·7	41·7	45·7	−0·8	7	2·76	+1·85	*	*
51	„ 26	Scilly (St. Mary's)	51	39	49·4	42·7	46·1	−0·2	3	0·47	−0·48	*	*
„	„ „	Leicester	47	22	40·4	28·0	34·2	−6·0	2	0·29	−0·27	6	12
„	„ „	Foynes	52	31	46·5	38·0	42·3	−0·1	4	0·68	?	*	*